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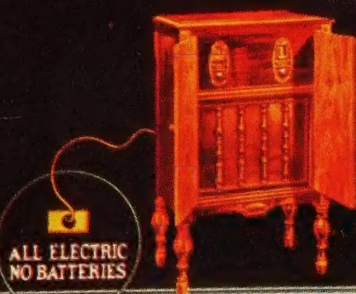
GAZETTE

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The Radiola 51 is essentially a Radiola 18 in a floor cabinet. It was introduced in 1928, and was one of RCA's first electric floor models. Story page 4.

Batteryless Radiolas



*A Model
for Every
Purse*



CANADIAN GENERAL ELECTRIC Co. Limited

The Antique Radio Gazette is the official publication of The Antique Radio Club of America, Inc.

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PRESIDENT'S PAGE

Lloyd McIntyre, President

Welcome everyone to 1993! There is a new man in the White House. I am checking all of my radio news reels to see if he promised this great radio fraternity of ours some kind of tax break! Perhaps an adjustment on our 1040 for all the miles we are sure to rack up this year in our quest for that ultimate prized radio.

Plan to attend ARCA '93 grand event in Huntington, West Virginia. You will be delighted and surprised at what the WV Chapter has put together for your enjoyment. See page 25 for more info.

We can all make light of our politicians and the way they earn their reputations, but as I have said before, this U.S.A. is still the greatest country on earth. I believe that the Constitution guarantees the right of everyone so inclined to collect old things. Our forefathers never dreamed of such a great invention as radio, but they still were able to protect our rights to use it; when it became old technology, the right to spend our last dime to buy it from a garage sale, flea market, or an auction from a

fellow-collector. In other words, to travel this great land without restriction in this our pursuit of happiness.

On a less harmonious note, I have just watched as "60 Minutes" tried to unravel some of the mystery of the bombing of the "World Trade Center". I just hope this turns out to be the work of a single deranged individual. I say that in the

context that this nation, as the world's remaining super power will not sit idly by and let some 5th class little country take a shot at us. It does give you pause for concern that someone would interfere in a major way with our normal

routine of every day living.

It is time to start our yearly ritual and kick it off with a grand event - ARCA '93, in Huntington, West Virginia. Many of you have come to Charleston on two previous occasions. Huntington is just 50 miles west of Charleston, and our hotel is only 10 minutes from all the entertainment. I think you will be delighted and surprised at what the West Virginia Chapter has put together for your enjoyment. I am looking forward to seeing all of you in a few weeks.

Verified Reception Stamps

In the mid to late 1920s, radio stations were very interested in finding out how far their signals could be received. They started an operation called *Verified Reception Stamps*. These were colorful, 22 mm by 35 mm stamps printed by the American Bank Note Company.

Reception was proven by listing the time the signal was received and enough of the program content to prove reception. This was put on a postcard and sent to the station heard. If correct, a VRS would be returned.

These stamps were issued by United States, Canadian, Mexican and Cuban stations. The U. S. stamps have an *eagle* perched on the top portion of a world globe, situated between two radio towers. The letters E K K O are distributed in the four corners of the stamp. That station call letters are in a band below the globe. The Canadian stamps have a *beaver* instead of an *eagle*.

My stamps are mounted on 3¾" x 6¾" looseleaf pages, nine to a page. The pages are ruled for each stamp and include the geographic location of the station. The collection includes three stamps from Iowa stations; one from Georgia; two from Michigan; three from Colorado; two from Arkansas; one from Oklahoma; one from Florida; eight from Illinois; one from New Jersey; two from Minnesota; 20 from California; one from Mass.; four from Ohio; three from New York; one from Tennessee; three from Texas; seven from Washington; two from Kansas; five from Utah; one from New Mexico; one from Idaho; and six from Canada. Receiving location was Los Angeles.

I am interested in determining the value of this collection, as well as determining possible interest in the collection. 

— Frank J. Berberich, 2220
Robin Hood Road, Williams, AZ
86046, (602) 635-4873.

Radio and Television Pioneers A Patent bibliography

By David W. Kraeuter

Each of the U. S. patents of 40 radio and television inventors is cited in chronological order, giving the researcher a sense of the overall development of each inventor's work. Great and lesser patents are listed, including Lee de Forest's Audion (the radio tube) and transistor; Edwin

Armstrong's wide-band FM and super-heterodyne circuits; David Samoff's secret radio signaling system; William Dubilier's electrical condensers, along with his better mousetrap; and John Stone's many important radio telegraphy and telephony devices, plus his reinforced soap cake. 

Advertising the Radiola 51

IN CANADA

By Bob Murray

The Radiola 51 is essentially a Radiola 18 in a floor cabinet. It was introduced in 1928, and was one of RCA's first electric floor models. In Canada the Radiola 51 was marketed by the Canadian General Electric Co. — their name was on the left escutcheon plate.

This is one of those sets that was made in the U.S.A., and then shipped to Canada and relabelled. On the rear edge of the shelf in mine, there is a paper label that says, *Canadian General Electric Company, Ltd.*, along with the model number and some patent information. This is pasted over a label of the same size that identifies the maker as the Radio Corporation of America.

The advertising sign came from an electric streetcar in Moose Jaw, Saskatchewan. One of the employees of the Moose Jaw Transportation Company formed the habit of piling the used ads in the office when they had completed their run. The pile was discovered about five years ago, and made the rounds of the antique dealers in Western Canada, who eagerly grabbed the ones for Coca Cola, etc. A dealer who remembered that I collect 1920s Canadian radios, got this one for me. It pays to keep local dealers informed about your collecting interests.

The term *Batteryless* for electric radios was used first in Canada by the Rogers Company. Ted Rogers had met Frederick McCullough at

the Westinghouse plant in East Pittsburgh, and had bought the Canadian rights to the McCullough tube. He had then rushed to market the first Canadian electric receiver in the Fall of 1925. He apparently didn't register *Batteryless* as a trademark, because both Canadian General Electric and Canadian Westinghouse used it with their first electric sets. ☞

See front cover for photos.

Radio and Television Pioneers *continued*

Included also are complete citations to over 3,000 patents. Cover-age is from the beginning of radio in the 19th century through 1978.

With a title index for each inventor with 10 or more patents, a cumulated personal name index to locate patents granted in the name of more than one person, and a list of U. S. Patent Depository Libraries.

This book will be useful to anyone studying the technical or commercial history of radio and television, particularly as it developed in the U. S. (329 pp., 1992, 92-8879, ISBN 0-8108-2556-2, \$35) ☞

David W. Kraeuter (BA, Geneva College; MLS, Pittsburgh) is a reference librarian at Washington & Jefferson College, Washington, PA. His articles on radios and radio history have appeared in various popular and technical journals, and he edits The Pittsburgh Oscillator: The Journal of the Pittsburgh Antique Radio Society.

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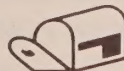
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"In Steel and Song"

The Wheeling Steel Radio Show

By John Cuthbert

Editor's Comment

All of us in the collecting and preservation of this important subject of radio ignore the importance sometimes of the *software* side. Every now and then I think it is nice to feature an article to pay tribute to what otherwise would have left these radios useless. The fact that radios were merely decorative in nature would not have sold the first radio, if the demand had not been there to listen and be entertained.

Let's have a moment of *radio blackout* for the ones who in the past really made all of this possible; the station owners, producers, writers, actors, announcers, sound effects people, sales personnel who went out and sold all of that commercial time, station engineers and news reporters. There are many other behind-the-scenes people who will never receive credit, but are owed everything for their participation in history.

I hope you will enjoy this very special article. Now, every time you look at one of those radios in a museum or private collection, you will understand a little better why so many millions, in so many varieties, were manufactured.

The blast of the Wheeling Steel mill whistle was a pervasive sound in the upper Ohio Valley during the late 1930s and early 1940s. Its call punctuated each working day, summoning thousands of employees to the workplace and marking time for everyone within earshot.

The whistle had an entirely different meaning to those living beyond the confines of the valley. To millions of radio fans across America the whistle's call was a summons to entertainment, a shrill prelude to one of the nation's most popular radio programs: "It's Wheeling Steel, Featuring the Musical Steelmakers."

Billed as the *original employee family broadcast*, the program began as an experiment in commercial advertising and employee relations. About 1930, Wheeling Steel's advertising director, John L. Grimes, speculated that it would be cheaper for the company to produce a weekly half-hour radio program for a month than to take a single back cover advertisement in the *Saturday Evening Post*.

Grimes was not the first corporate executive to recognize the advertising potential of radio. Corporate sponsorship of popular programs was firmly established by the 1930s. Many large corporations sponsored national half-hour shows like *Stop Me If You've Heard This One*, with Milton Berle (Quaker Oats); "The Jello Program," starring Jack Benny (General Foods); and *Town Hall Tonight*, with Fred Allen, Portland Hoffa, and Peter Van

Steedan's Orchestra (Bristol Myers).

Smaller companies and organizations sponsored programs which aired locally in cities throughout the country. In Wheeling, the Stogie Makers Union sponsored a musical program which was broadcast for 13 weeks over WWVA in 1932. The program ran an additional 13 weeks under the sponsorship of the Marsh Tobacco Company.

But the program that Grimes had in mind had one fundamental difference from other corporate broadcasts. Instead of merely financing performances by professional entertainers, Grimes proposed to feature the company from start to finish. Wheeling Steel would provide not just the sponsorship of the musical variety show, but the talent as well. Central to his idea was the participation of the company's huge *family* of employees and their relations in providing low-cost amateur entertainment.

Grime's plan initially met with skepticism. Several company officials questioned the effectiveness of radio in advertising products other than home consumables like toothpaste and oatmeal. Others had no desire to see Wheeling Steel go into show business. The tremendous growth of radio during the 1930s and the popularity of musical performances that Grimes incorporated in other company advertising activities eventually changed their minds.

Grimes finally received approval for his plan during the summer of 1936. A contract was signed to broadcast the show over Wheeling's WWVA, which was already well known for its *Jamboree* country music program.

Aided by WWVA program director

Pat Patterson, Grime's first job was to assemble an orchestra. Affiliation with Wheeling Steel was not initially required of orchestra members, though like the majority of Wheeling area residents, most local musicians had at least one relative who worked for the company.

John Grimes simply sought to engage the best talent available. His pool of applicants included mature musicians who had worked in theater and movie house orchestras before the introduction of the talkies, as well as a younger generation of dance band performers. After a lengthy series of auditions a group of 16 was selected, including several veterans of the earlier stogie shows.

As the orchestra rehearsed, the search was begun for employee *headliners* — soloists and ensembles — who would provide the amateur and family flavor to the show. Employees "flocked in by the hundreds" to audition, according to a later article in the *New York Times*. Among the first *stars* to emerge were *The Musketeers* (a mixed quartet composed of tin mill worker Walter Shane, pipe mill clerk William Griffiths, and employee relatives Alice Foulk and Ethel Cheek), and a *singing stenographer* named Sarah Rehm.

It's Wheeling Steel made its debut at 1 p.m. on Sunday, November 8, 1936, from WWVA's studio on the top floor of the Hawley Building. With the cooperation of WPAY in Portsmouth, Ohio, the program reached listeners up and down the Ohio Valley. The show's content consisted primarily of standard light classics, popular songs and show tunes, all performed from published arrangements, as well as advertising often presented in the form of anecdotes about the people, history 

and contributions of the Wheeling Steel Company. WWVA's Pat Patterson served as the program's first master of ceremonies.

As Grimes had predicted, *It's Wheeling Steel* caught on quickly with local listeners, especially with the Wheeling Steel family. Employees began to refer to the program as *our show*. Even listeners who were not affiliated with Wheeling Steel felt a kinship to the program due to its local origins and its homey nature. Grimes responded by placing an even greater emphasis on the show's family slant as time passed.

The program was broadcast from the WWVA studio for only the first year. In search of a larger facility, with better acoustics and a live audience, the show moved first to the Scottish Rite Cathedral and later to the Market Auditorium, before finding a permanent home at the Capitol Theater in 1939.

During the show's second season, *It's Wheeling Steel* was billed as an all-employee broadcast for the first time. The role of company headliners was augmented, and arranger Maury Longfellow was engaged to prepare original music. Grimes also sought to firm up the employee connections of the orchestra. Musicians with no link to the company either found or were assigned one. A harpist recruited in Iowa received a position in the advertising department along with her invitation to join the show, as did the program's second singing stenographer, Regina Colbert, who signed on in 1938. The season premiere on September 12, 1937, featured saxophonist Verdi Howells who Pat Patterson noted "was employed in the machine shop of the Yorkville works."

In ensuing weeks a succession of talented amateur headliners appeared. Several came back again and again by popular demand. Especially notable were a trio of high school girls billed as the *Steel Sisters*, and a quartet of *Singing Millmen*. Also introduced was a series of *capsule classics* which familiarized listeners with the great works of classical music through two-minute condensed versions arranged by Maury Longfellow.

Family connections aside, most orchestra members were unionized professionals. According to *Time* magazine each received a weekly salary of \$38 by 1939. The salary rose eventually to \$65. All other performers were considered amateurs, though they did receive modest payment for their participation. Headliners like the Singing Millmen generally received \$10 to \$20 per week over their regular wage, with no time off for rehearsals. The Steele Sisters received approximately \$5 to \$10 per broadcast. The result was a most economical program. *Time* noted that while other half-hour network musical shows cost as much as \$15,000 per week, *It's Wheeling Steel* ran about \$3,500, \$2,500, of which was spent on purchasing air time.

The show's popularity grew steadily as the second season progressed. By December, with the local listeners in his pocket, Grimes was ready for bigger challenges. Persuading the company to purchase a half-hour test slot on the Mutual Broadcasting System, Grimes groomed his production for coast-to-coast fame. On January 2, 1938, the sound of the Musical Steelmakers was heard from Maine to California. ☞



The Steele Sisters — Lois Mae Nolte, Harriet Drake and Lucille Bell — went on the road after their debut on the Steel Show. Photographer and date unknown, courtesy West Virginia and Regional History Collection.

(Continued on page 42)

Power Transformer Problems Aren't Always Easily Diagnosed

by Richard E. Bradley

The piece of equipment is a 1933 Truetone table radio. The power supply design is standard for that period of technology. The power transformer had failed due to the usual problems with vintage filter capacitors and the lack of a fuse in the primary winding. The 80 rectifier was also defective; the filament was intact but the emission was very poor. The top of the envelope was almost black, and the getter showed severe signs of deterioration. The rest of the tubes in this set were also the correct original tubes, but none showed the wear and tear of the rectifier, not even the 42 audio output tube. These observations were all made in a short period of time and with a minimum of test equipment. The bottom line here is we have "advanced old radio disease."

I located a new power transformer, new old stock (NOS) still in the original box. It was a "Stancor" P-6200 series complete with instruction sheet and all specifications. The box was marked \$7.50 originally. (The good old days).

Upon removing the old power transformer and filter capacitors I also found some questionable solder connections and other small components needing attention. The time to do this was while I had the room to work, and could really see what I was doing.

After inspecting the rest of the radio I connected it via test leads to an external laboratory power supply. As I had expected, it worked beautifully — short wave, on a three foot piece of wire for an antenna, down in the basement of a full masonry home. If anyone builds radios like that anymore they are not sold to civilians. Now for the new transformer.

By this time I had inspected and tested the chassis. The same should really be done for the new power transformer, as new is not guarantee. I like to energize the primary with all the secondary leads insulated or at least isolated from one another. After an hour of no-load operation I like to check the core temperature with my fingers and the output voltages with my multimeter. If it is after 12 a.m. when you do this is possible to accidentally substitute fingers with multimeter. You may have had this experience. You are now wide awake for the next three hours, no coffee required.

The transformer passed inspection, so on to the installation of it, a new 80 rectifier and new filter capacitors. Power on and the radio played fine. After about an hour of continuous operation the new transformer started heating up. Not a lot, but more than I liked. After two hours it was still safe, ☞

but hot! In fact, the whole corner of the chassis was hot! The chassis felt hotter than the transformer core, but I figured it was my imagination getting the best of me. At this point I was pretty disgusted. I had put more care into this project than any normal technician, checking each item every step of the way. I decided to set it aside for a day or so and think it through before going back to it.

I decided to pull the 80 rectifier. I reasoned if anything was wrong with it or any circuitry following it, it would no longer be a factor. Remember, I had the radio playing on an external power supply before with no problems. I energized the unit again, without the rectifier. After about two hours of operation the chassis and transformer were both hot! I just could not believe it! The only load on the power transformer now was the heaters of the remaining tubes and the dial lamp, a tiny percentage of what it was designed for.

I decided to pull the rest of the tubes, thus unloading the heater circuit. Now the dial lamp was the only load. I energized the unit again, no load. After about two hours, the same results. The chassis and transformer core were hot! Now I was lost. Could the new transformer be bad? A short in the heater circuit? A defective tube socket? Pull the transformer again, and retrace each and every step, right?

I decided to plug the unit into a precision power meter and see what it was drawing. The actual no-load draw was 45 watts! Wow! The correct full-load draw was listed at 50 watts but I had computed 47. No wonder it got hot! With all the tubes in I would have

had 100% overload. Nothing made sense. When nothing makes sense I go to the library. I just knew the transformer was good, and this one was rated at 87 watts. I should have been able to play this unit 24 hours a day!

After an hour of reading up on transformers I found that losses are listed as copper loss (resistance of the wire), hysteresis loss (magnetic core loss at high frequency), flux leakage loss (magnetism leaking from the core), external induction loss (when flux leakage loss results in a power transfer to some place where it is not wanted), and finally eddy currents (currents induced into the core by transformer action, an unwanted side effect of large core transformers). Almost all of these losses are minimal, most of the time. Transformers are considered very efficient as a rule. With the collection of losses listed, the average transformer is still about 85% efficient, or better.

In looking over the list of losses and assuming the transformer was still good, I concluded that my problems were a combination of flux leakage loss resulting in the worst case of externally-induced power loss I have ever experienced. I also reasoned that the resulting decrease in primary counter electromotive force (c.emf.) compounded things by artificially increasing the copper losses present in the primary winding, thus dissipating 45 watts of power in the form of heat only, with no useful output to show for it. It was now I realized that the heating of the chassis was not the result of heat migration from being bolted to a hot transformer core, but the result of induction heating ☞

effects of significant eddy currents flowing in the chassis. I remembered the chassis seemed hotter to the touch than the core but I dismissed it. The chassis was actually hotter than the core; this means they were being heated separately while accumulating heat collectively, through heat migration. Now add the eddy currents flowing back and forth between the core and the chassis. At any rate I was sure I found the source of the problem.

Now to prove it! I decided to energize the transformer via the wattmeter and remove the four core bolts while observing the meter. Sure enough, the power consumption began to drop as soon as I started reducing the torque on the bolts one turn at a time, one bolt at a time, till the meter reading was about half the 45 watts indicated initially. The last 23 watts dropped to about watts when the core was lifted from the

steel chassis. My hunch turned to reality.

Now to correct it! I went to an auto parts store and purchased some gasket material, 3/32" thick. I cut out two pieces with an Exacto knife, using the top cover of the transformer as a template. One gasket was used to insulate the cover from the top of the core, the other was placed between the bottom of the core and chassis. The bolts and nuts were replaced finger tight, then snugged. They were not insulated, and as a result the amount of torque made a difference of one watt each! Believe it or not! Four bolts = 4 watts + watts of excitation power totals 7 watts no-load, much better than 45 watts no-load! I could have clear-coated the bolts and put fiber washers on both ends but it draws 48 watts total now and sounds super. I can play this radio as much as I want! ☺

As The Trade Thinketh . . .

Reprinted from Radio Magazine, September, 1929, page 31

PROF. WALLACE C. SABIN:

Harvard University, as quoted by V. Ford Greaves, Kyelectron engineer.

"The theoretically ideal diaphragm for sound reproduction should be a plane area of infinite rigidity without mass, freely suspended in air, without friction, tension or stress."

M. F. BURNS:

Vice-President and General Sales Manager, E. T. Cunningham, Inc.

"Tube sales indicate that the present year will prove the greatest in radio history. Production for all manufacturing units in the United States during 1929 is expected to reach 110,000,000 radio tubes."

Editor's Note: Now one can understand why tubes even today are still available.

H. S. TENNY:

President, The Rola Company, Oakland, California.

"There is a great future for the radio manufacturer and dealer in the talking movie field, provided that many technical drawbacks in the design of this equipment can be eliminated. The main obstacle to overcome is the response range and time-lag of sound in different parts of a room or a theater."

MORE POWER SUPPLY TIPS

by Richard E. Bradley

The piece of equipment is a 1933 Belknap table radio. The power supply design is standard for that period of technology. The power transformer had all the usual secondary taps for the 80 rectifier and typical 6.3 volt heater supply for the rest of the tubes. The unit is rated at 50 watts maximum power consumption at 125 volt maximum supply line voltage.

The output of the 80 rectifier was filtered in the usual manner using an inductive pi-type filter network. The inductive portion was supplied by the filed magnet coil of the speaker. The capacitive portion consisted of electrolytic filter capacitors shunting each side of the speaker field to chassis ground. The shunt capacitors smooth out the output voltage from the rectifier, and the series conductor smooths out the output current.

The radio worked fine when I acquired it at a flea market. After getting it home, I must have used it at least a dozen times, but not for more than 20 minutes at a time. The first time I let it play for about an hour, both filter caps failed. This overload condition was reflected back through the 80 rectifier and power transformer, destroying them as well. A one amp. fuse in the primary of the power transformer would have been nice, but as usual there was none.

The thing I find very unusual about this particular power supply failure is the symptoms. This unit never stopped playing and the hum level at the speaker was never excessive. In fact, even as I shut the unit down, with smoke pouring out of it, I noticed the volume had gone through a very subtle and gradual decrease over a 30-minute period, with only minor distortion. I let the unit cool off. Knowing the damage was already done, I was curious to see if the unit would play again, however briefly. I re-energized it, again it played fine, and again in a very short time there were signs of over-heating and traces of smoke. It was obvious I had to do a complete replacement of the power transformer and all filter capacitors. I examined the speaker field coil and it was still in good shape. I understand this is not always the case. The unit is restored now and I will bring it to the next PARS meetings. There is now a minor modification to this unit. Under the chassis there is a none amp. fuse in the primary of the power transformer, and it's not a slow-blo either.

I wanted to share this experience with fellow collectors to save some of them a similar experience. I learned a lot. I learned that just because a unit plays does not necessarily mean it's OK! I learned to fuse all power transformer primary windings, if only by



external and temporary means to test thoroughly any new addition to your collection. I also learned that some components do not fit the failure scenario of failing completely and abruptly, and as a result the damage can be more extensive.

I now plug all newly-acquired units into a precision volt-ammeter to check the power consumption against the published power rating for the unit. I check the readings about every 10 to 15 minutes, over a two-hour period. If the power consumption is on the increase, it's time to go over the power supply and give it a thorough inspection. If the filter capacitors are warm to the touch, they're leaking and must be replaced. The filter capacitors are supposed to absorb energy and give it back when appropriate. If the filters get warm, they are dissipating energy, and that is not normal, even if it's only a few watts of dissipation. The theory is it can

only get worse with time.

One last interesting note: the schematic diagram shows the speaker system employs a humbucking circuit. I wonder if this circuit was effective enough to mask the fact that the filter system was failing? Only reduced volume and slight distortion were present. If such circuits are that efficient, that would explain the lack of notable hum. This would indicate you cannot always trust what you hear when evaluating a power supply system of any unfamiliar unit.

I hope some of the fellow collectors find at least part of this information valuable. I am working on interesting projects all the time and when I get a challenge I like to share the data. If anyone else has an interesting situation please share it with others. I really hate to see these nice old radios go up in flames! ☹

As The Trade Thinketh . . .

Reprinted from Radio Magazine, September, 1929, page 31

ROBERT A. MILLIKEN:

California Institute of Technology.

"Human progress grows out of measurements made in the sixth place of decimals."

B. H. BAKER:

Sales Manager, A. H. Grebe & Co.

"The radio receiver has passed from the stage of a position where everyone regards it as an acceptable addition to a well-furnished home."

A. J. CARTER:

President, Carter Radio Company.

"Radio has been simplified to the point of one-dial control. The next radical change will be electric automatic tuning and remote control so that the stations may be selected at the radio set or at a distance by merely pressing a button."

W. C. FUHRI:

Vice-President and General Sales Manager, Columbia Phonograph Co.

"By selling phonograph records the radio dealer can duplicate the success of the phonograph dealer who sells radio sets. The radio-phonograph set thus affords another means for spreading the sales peak throughout the year."

ELECTRIC Traffic Signals

Radio Interference Created by Flashing Traffic Beacons Becoming Serious Problem

By W. K. FLEMING

Chief Engineer, Tobe Deutschmann Corporation

IN A recent survey to determine the relative amounts of radio interference created by various types of electrical apparatus, electric traffic blinkers and traffic signals were found to be among the most serious offenders. In fact, in some localities it was found impossible, due to the disturbances set up by such devices, to receive even local programs satisfactorily. As the intensity of the interference varied in certain localities, as well as with different types of apparatus, it was necessary to undertake considerable field and laboratory research to determine the source of the interference and the methods of its distribution.

Intensity of Interference

IN THE tests conducted under actual operating conditions, it was found that the intensity of the interference very often depended upon the method of installation of the signal and its control mechanism. When the operating mechanism was installed directly in the apparatus, the interference was not nearly as great as when it was installed some distance away. This is due to the fact that the interference was radiated not only from the power supply lines but also from the load lines between the signal and the operating mechanism. In fact, the load lines, under these conditions, seemed to act as a transmitting antenna with consequent increase of radiated interference.

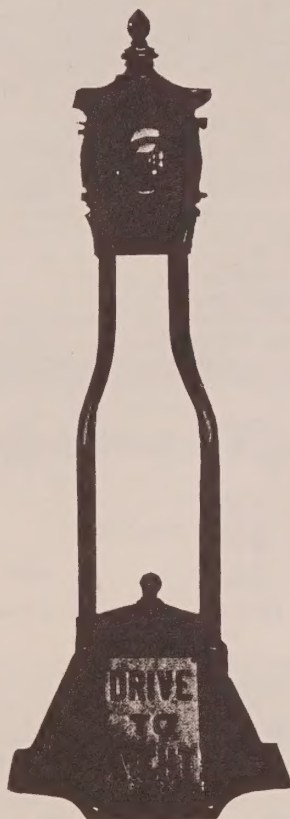
In the laboratory, it was found that the intensity of the disturbance was largely dependent on the type of operating mechanism and the circuit of the entire system.

Control-Mechanisms

THE operating mechanisms commonly used were divided into three classes: One type employing an induction motor; another, a synchronous motor, and a third, a solenoid magnet.

The switch mechanism in the units tested consisted of two general classes; one in which the switch was of the mercury type, the other in which the switch was of the point-to-point contact type.

While the type of switch mechanism employed did not seem to have any particular effect on the intensity of the interference, the type of operating mechanism employed was quite important in this regard.



Typical Traffic Signal

The circuit shown in Fig. 1 is the basic circuit arrangement of the motor-operated type mechanism. The circuit shown in Fig. 2 is the basic circuit arrangement of the solenoid magnet-operated mechanism.

Upon examining the circuits closely, it can readily be seen why one of the circuits will cause more interference than the other. In Fig. 1, it will be noted that

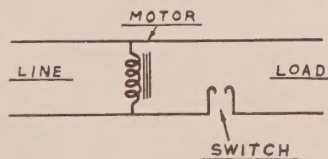


Fig. 1. Basic Circuit of Motor-Operated Traffic Signal

the operating motor mechanism, which is shown in the diagram in the form of an inductance, is connected permanently in the circuit while the mechanism is operating. In Fig. 2, it will be noted that the operating solenoid magnet, which also is shown in the form of an inductance, is connected in the circuit only when the switch is closed. The re-

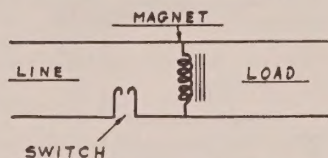


Fig. 2. Basic Circuit of Solenoid-Operated Traffic Signal

sult is that, owing to the inductance being operated in the switch circuit, a greater disturbance is set up in the circuit shown in Fig. 2.

While the difference in the intensity of the disturbance created by these two circuits is not great, it was found necessary, to develop a special type of filter for this circuit.

Types of Installation

THE circuit shown in Fig. 3 is the simplest type of traffic signal installation, the signal and operating mechanism being closely associated in one hous-

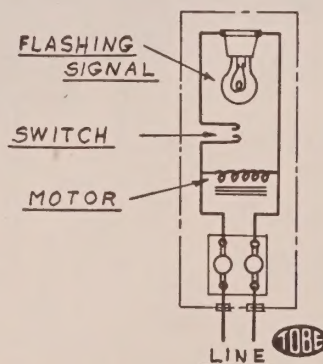


Fig. 3. Simplest Type of Traffic Signal Installation

ing. The interference set up in this type of installation may, in many cases, be corrected by the application of an inductive capacitive filter.

The circuit shown in Fig. 4 consists of a standard blinker mechanism with the addition of a signal which is lighted

EDITOR'S NOTE: Has your local traffic light interfered with your CD player or perhaps your cellular phone while waiting for the green? Things that we take for granted were not so easy just 60 years ago. 📻

steadily during the night. It would seem that this arrangement would not materially affect the interference set up by the blinker mechanism. A specially designed filterette, however, is necessary where this arrangement is used.

The circuit shown in Fig. 5 differs from that shown in Fig. 3 in that the operating mechanism is located at some distance from the signal. As previously mentioned, the interference created by this arrangement is much greater than with the unit construction type, and a special filter is therefore required for this type of installation. However, the type of filter required will largely depend upon the extent and distribution of the interference.

Distribution of Interference

THE interference created by even the simplest type of flashing signal, such as is shown in Fig. 3 and Fig. 4, is very often distributed over a considerable distance. The area affected by the disturbance is largely dependent upon whether overhead or underground wiring is employed in the secondary network of the distribution system.

If overhead wiring is used, the area affected will be that immediately adjacent to the power lines between the signal and the secondary of the distribution transformer. If underground wiring is used, the disturbance will not be so noticeable except in close proximity to the signal.

The interference created by blinkers which are not of the self-contained type

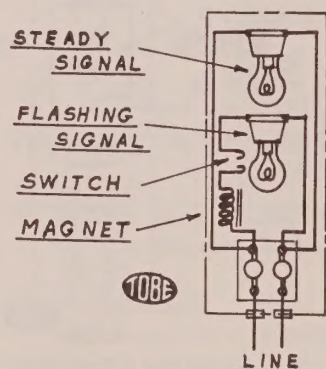


Fig. 4. Circuit of Blinker and Steady Signal

is much more intense in the immediate vicinity of the signal. In addition, a much larger area is generally affected, due not only to the disturbances set up in the power supply lines to the blinker, but also to the direct radiation of the disturbances, from the load lines of the signaling device. In this manner interference is often transferred to telephone and other associated circuits which then

aid in the distribution of the interference. The intensity of this disturbance will depend to a very great extent upon the distance between the blinker and the operating mechanism. This disturbance is entirely independent of that radiated from the power supply lines, and may therefore be present even though the signal is connected to an underground distribution network.

As a general rule, it is a simple matter to identify this type of interference. The characteristics of the disturbance are so pronounced that it is rarely confused with the disturbance created by other types of apparatus. In general, the interference is in evidence as a steady clicking noise, occurring at approximately one second intervals. However, although some types of blinkers are operated much more rapidly, the same steady clicking

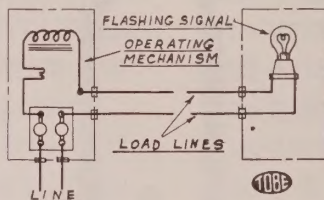


Fig. 5. Circuit of Remote Control Blinker

readily identifies the source of the interference.

Locating Interference

TO LOCATE the beacon which is causing the interference is a comparatively simple matter. The best procedure is to note the intervals of clicking and then check this with the nearest flashing beacon in the neighborhood, even though it may be at a distance of several thousand feet.

After once having located the signal which is causing the interference, the first thing to do is to determine whether it is of the self-contained or remote control type. If it is of the self-contained type, the filter should be installed in the same housing as that containing the operating mechanism. If it is of the remote control type, the filter should be installed in the housing with the remote control mechanism. If this is not pos-

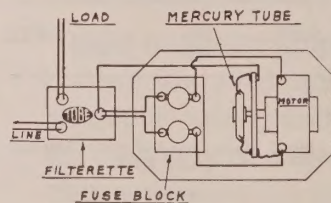


Fig. 3F. Protection Against Self-Contained Blinker by Tobe Filterette Type 1 D. O. G.

sible, the filterette must be installed immediately adjacent to the mechanism. The leads between the filter and the mechanism must be shielded, and must

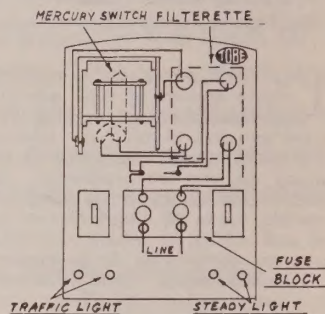


Fig. 4F. Protection Against Blinker and Steady Signal by Tobe Filterette Type 1 D. O. A.

not be more than 18 in. long. If the filter is exposed to the elements, it must be contained in a weatherproof housing.

The filter required for the self-contained unit, shown in Fig. 3, may be attached directly to the supply lines. However, better results will be obtained if a filter as shown in Fig. 3F is used.

The filter required for use with the unit shown in Fig. 4 is of special con-

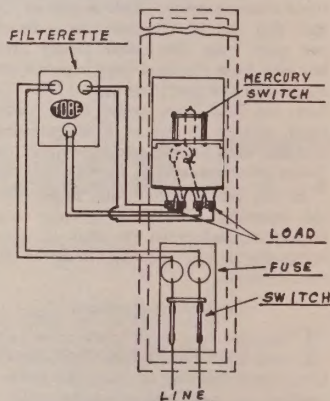
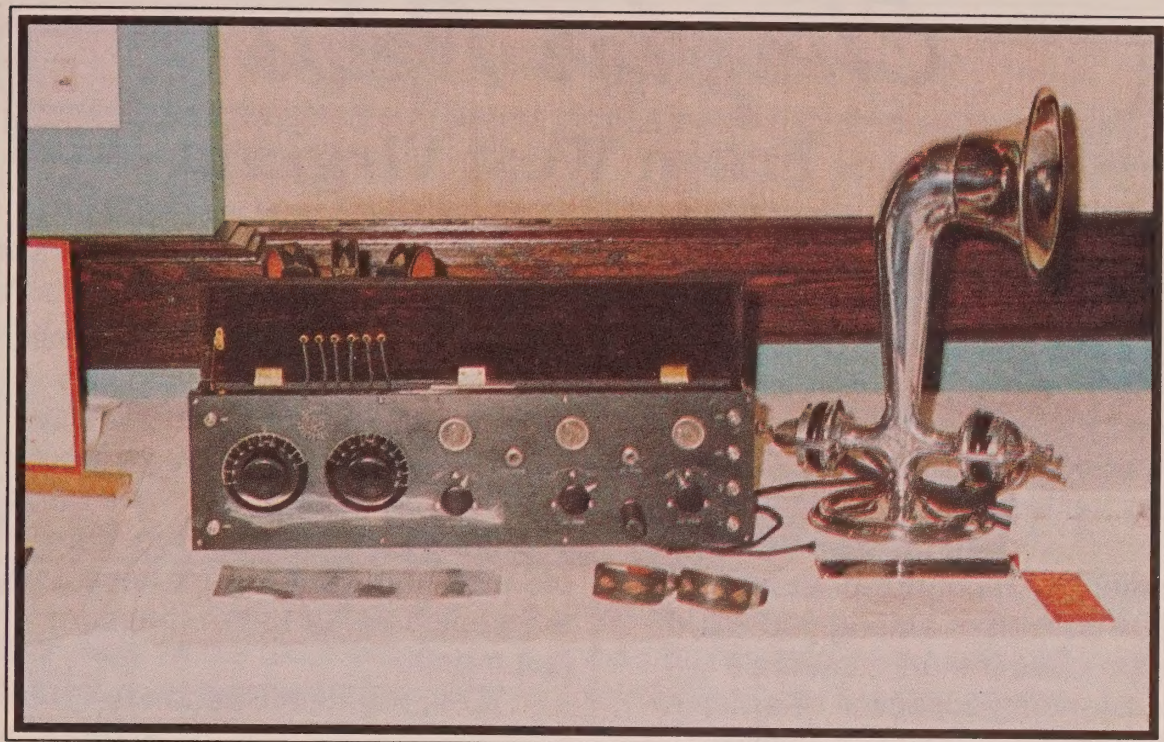


Fig. 5F. Protection Against Remote Control Blinker by Tobe Filterette Type 1 D. O. E.

struction and must be connected as shown in Fig. 4F.

The filter required for the installation shown in Fig. 5 must be connected in both the load and line circuits. (Fig. 5F.)

In conclusion, it is evident that while an inductive-capacitive type filter may be satisfactory for use in simple installations, in general a much more complex filtering arrangement is required for application to most flashing signals.



Prize winning audio amplifier.



Patsy and Lloyd McIntyre at the annual West Virginia Broadcasters Association Convention at the Charleston Marriott. They displayed vintage radio equipment and books that the Museum sells. (Story on page 19).

Chapter News

News From West Virginia

Zane W. Parsons, N8OLD, Reporter

For those attending the June ARCA convention, there will be plenty to see in Huntington: The Huntington Museum of Art is located less than 12 minutes drive from the Radio Museum, and is a nationally recognized art museum. Gun collectors among you will appreciate the art museum's outstanding collection of antique firearms; the renowned Pilgrim

Radio and Technology being open to the public. Everyone who has toured the museum seems to have enjoyed it. And many have gone out the door saying, "I'll come back and bring my grandpa!" We were pleased to have two Japanese and a Swedish visitor to the museum last month.

Well, Hamfest Season is approaching, and the Tri-State

Amateur Radio Association in Huntington is preparing for its annual event. The local hamfest will be at the Huntington Civic Center on Saturday, August 7th. It starts at 8

We of the WV Chapter of ARCA eagerly anticipate the ARCA National Convention in Huntington June 10, 11, and 12.

Glass Factory where you can watch skilled glass blowers create decorative treasures; and a tour of a large privately owned museum just minutes away from the radio museum. This museum has just about every kind of tool, utensil and household appliance imaginable used by settlers and farm families of the late 1800s and early 1900s. Highlights of this museum include a complete (very complete) general store, a 1910 Sears automobile, and a Western Electric washing machine. It is well worth your trip to Huntington to see this museum. Even if you didn't attend the ARCA convention.

March 6, 1993, marks the first anniversary of the Museum of

a.m. and ends at 3 p.m. W5YI test registration starts at 8. Walk-ins are welcome. Anyone wishing to upgrade, bring FCC Form 610 and copy of license. Door prizes will be given away. Parking is available nearby. Talk-in on 146.76 MHz, Down 600. There will be lots of new and used equipment to choose from.

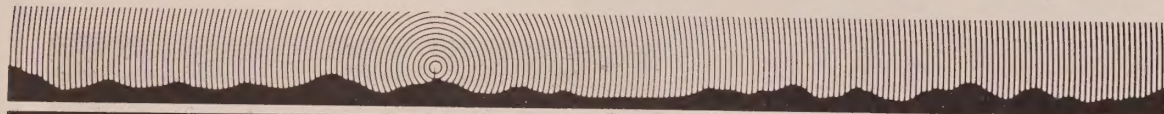
That's all for now, stayed tuned for more next time. 

In the industrial history of the United States, radio will be recorded as the most rapidly developed and most stabilized of all the important industries.

—E. J. Millen, Treasurer
Colonial Radio Corporation

The Museum was privileged to be invited as a participant in the annual West Virginia Broadcasters Association convention. This 2-day

equipment and books that the Museum sells. (See photo on Page 17). There was a "Super Bowl" party on the 31st of January, with



West Virginia Broadcasters Association

Marilyn Fletcher, Executive

affair, held at the Charleston Marriott, was a grand opportunity to meet with radio and television engineers, station managers and owners, and discuss the objectives of our museum.

Patsy and Lloyd spent the two days with a display of vintage radio

all-day seminars on Monday. This was highlighted by a luncheon, with comedian "Jim Teeter and the Presidents".

Overall we feel this was a worthwhile effort. A great big thanks to WVBA and Marilyn Fletcher for inviting us.

Chapter News cont'd. page 54.

CALENDAR OF EVENTS

The Mid-Atlantic Antique Radio Club (MAARC) has determined that our monthly meetings for Calendar year 1993 will be held on the following dates:

April 18	Sunday	2:00 p.m.
May 16	Sunday	2:00 p.m.
June 20	Sunday	2:00 p.m.
July 18	Sunday	2:00 p.m.
August 15	Sunday	2:00 p.m.
September 19	Sunday	2:00 p.m.
October (MAARC Annual Picnic, date TBA)		
November 20	Saturday	6:30 p.m.
December 18	Saturday	6:30 p.m.

All meetings will be held at the New Hope Seventh Day Adventist Church in Burtonsville, MD. (Contact MAARC President Lloyd Kendall or Joe Koester for any additional information).

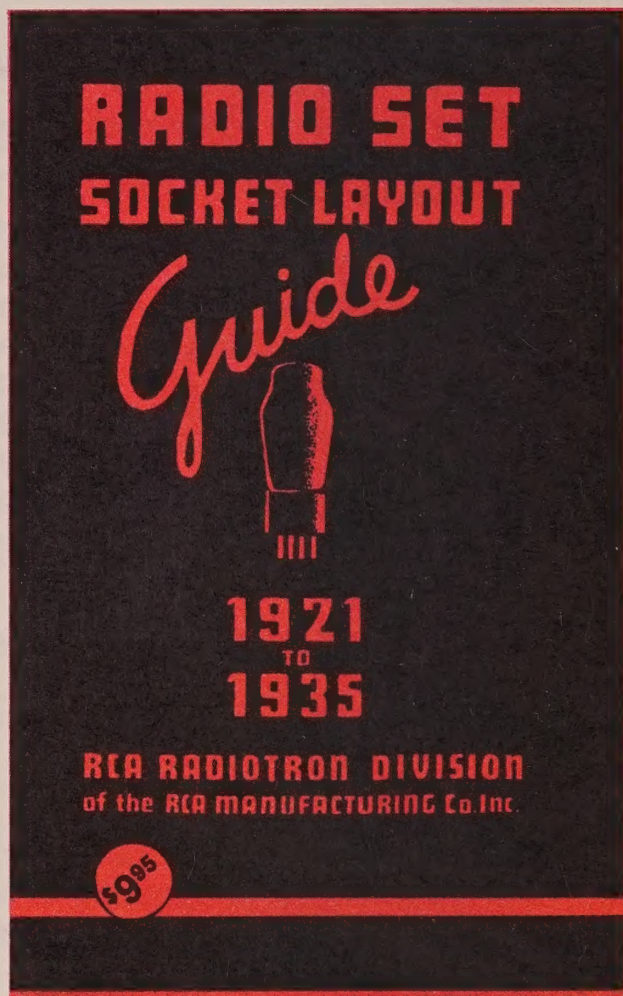
RADIO SET SOCKET LAYOUT GUIDE

1921 to 1935

RCA RADIOTRON

Division of the
RCA MANUFACTURING
Company, Inc.

This book is packed full of technical data. A must for every collector trying to determine a set model or tube layout. With very little information other than manufacture, this powerful reprint of an RCA guide book will lead you to the model number of all the popular set manufacturers of the time. Complete tube compliments for each model and that tube's application. A complete RCA tube characteristics chart with tube outlines and socket connections.



*This book is an outstanding value at
only \$9.95 plus \$1.50 S&H
Paperback 5¼ x 8½, 256 pages*

PLACE YOUR ORDER WITH THE
Museum of Radio & Technology, Inc.
4704 Country Club Blvd.
So. Charleston, WV 25309

Crosley Fiver DeLuxe.
Story on page 49.



Homemade stamps by Bengt Svensson, Stockholm, Sweden.



Colorful Radio Display

Another RCA Victor "First" Model 7-BT-10K, the Transistor Seven

by Ross Smith

The year 1955 brought both a pocket portable, covered in *The Gazette*, Volume 20, Number 4, and full-size portable from RCA. The 7-BT-10K comes in a case made of tan leather. It has an attractive aluminum color grill with a slide rule dial across the top. It is a mid-size radio measuring 11" long, 6¾" high and 4" wide. The seven socket mounted transistors used are the same numbers used in the pocket portable 7-BT-9J, with one extra 2N109 AF amplifier. The heavy 4" x 6" oval speaker, in combination with the larger case, gives a superior tone quality for an early transistor set. Good sensitivity comes from a larger rod antenna.

The set is powered by an oversized battery, RCA VS-301 or Eveready 2506, mounted across

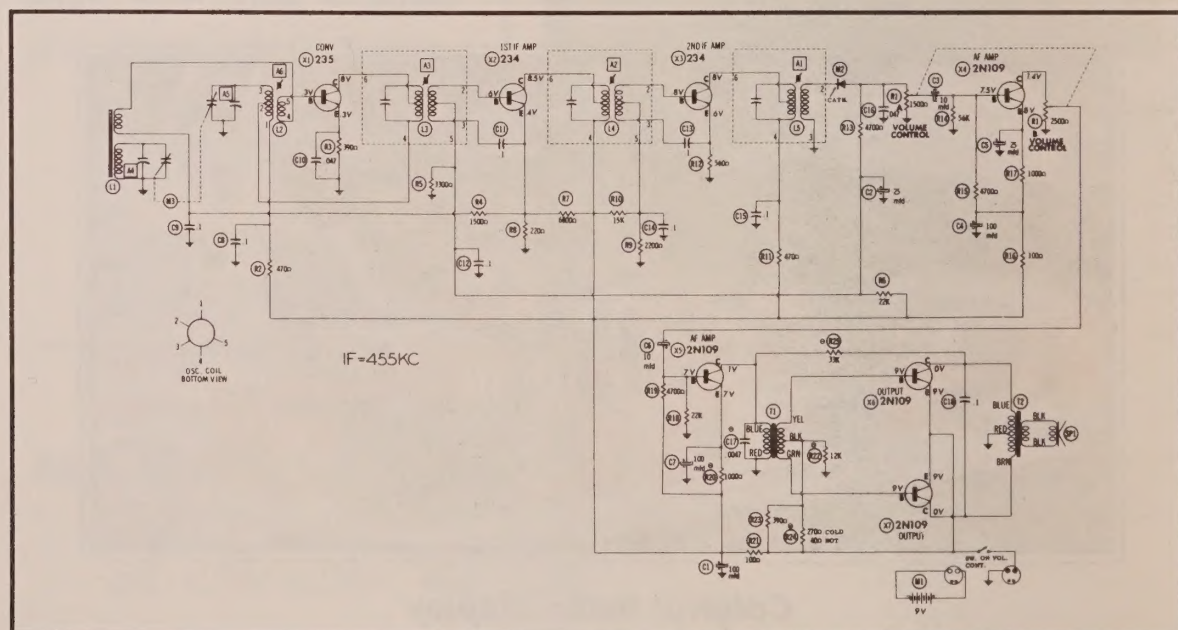
the bottom of the case at the back. Although the battery has 3-volt and 6-volt taps, only the 9-volt connection is used on this model. Battery drain is 10 MA. The size of this battery is 8" x 2-5/8" x 1½".

With minor changes this set continued for the next model year under Model 8-BT-10K, chassis RC-1156. Current drain was reduced to 8.5 MA and the 6-volt tap on the battery was used. The tandem volume control was reduced to a single and a DPDT switch was added to provide for the battery tap.

According to Serge Krauss, transistor sets of the 1950s were made in RCA Indiana plants.

Picture courtesy of CTS-Turner Museum, by Joe Carlson.

See color photo on Page 37.



Policing RADIO Advertising

An account of the National Better Business Bureau's work in checking and preventing fraudulent claims and in protecting the buyer of radio equipment.

EMPHASIS in our work in the radio field this past year has been placed largely on loudspeaker advertising, descriptive terms applied to various types of radio receivers, exaggerated copy, and bait advertising. A survey was also made of the advertising of each exhibitor at last year's New York Radio Show in order to check the literature with the Standards of Practice already set up within the industry.

With the advent of the a-c set, some advertisers misrepresented earlier models in order to compete with the modern set. The Bureau found that others were confusing the public by using vague descriptions which did not differentiate the various types of sets they were selling. We discussed this subject with prominent engineers within the industry and with trade associations and individual advertisers. Tentative nomenclature was submitted to our contacts and the adoption of definitions was urged. Finally standard descriptions were agreed upon by the trade and adopted by national advertisers. The nomenclature adopted follows:

1. Battery operated set.
2. Socket-powered set.
3. Electric set.
4. A-C Tube Electric set.
5. D-C Tube Electric set.

Our survey of Radio Show sales literature indicated a closer adherence to the standards of advertising practice which had been adopted by the industry previously. The principal points of deviation from the standards consisted of inaccurate designation of cabinet woods, incomplete price quotations and misleading loudspeaker descriptions.

Specific claims which were investigated during the course of our individual case work involved inaccurate claims of automatic tuning, misleading descriptions applied to loudspeakers, incorrect price quotations, unwarranted claims of superior performance, unjustified claims for superior set design and performance, marketing of tubes in cartons calculated to stimulate products of well-known tube manufacturers, misleading description of the number of tubes required, unwarranted attempts to sell neon tubes for television purposes, claims for tubes alleging superior power, and inability of

"A radio receiver designed to utilize not less than two screen-grid tubes in tuned radio frequency circuits may be properly classified as a screen-grid receiver."—Tentative definition formulated by RMA executives at request of National Better Business Bureau.

mail order advertisers to furnish the equipment ordered by dealers. Where investigation showed that objectionable advertising was employed, the Bureau's negotiations with radio advertisers usually caused the elimination of the objectionable practices.

"Dynamic" Speaker Advertising

CONSIDERABLE attention has been given to the advertising of loudspeakers. This has been caused by the increasing popularity of "dynamic" speakers and the large sale of this type of speaker by dealers. Early advertising of the dynamic speaker caused some manufacturers and dealers to offer as "dynamic speakers" products which were of the magnetic type of construction. The National bureau discussed inaccurate descriptions of these products with advertisers and succeeded in obtaining corrections.

It was apparent from this work that definitions of the various types were needed in order to differentiate the products in the minds of the public and of dealers. The Bureau again contacted with engineers in the industry and with trade associations urging the early adoption of such definitions. We also investigated the patent situation in order to help clarify the issues at hand. The result was the recommendation of the popular description "dynamic" and "magnetic" based on technical definitions of "moving coil" and "moving iron" speakers as adopted by the Institute of Radio Engineers. National advertising has been checked against these definitions for violations.

"Bait" Advertising Still Prevalent

AS THE latter pages of this report will show, complaints are still being received regarding "bait" advertising and

similar unfair selling practices on the part of retailers. Shoppers from the National Bureau and from local bureaus have obtained first hand evidence of the use of bait and have sought the assistance of the courts. Continued attention will be given to this type of unfair competition and public deception. It would assist the bureau if radio manufacturers would call our attention to any complaints which they receive.

In one of the investigations described in the second section of our report it will be noted that a mail order radio concern was declared fraudulent by the Post Office Department and denied the use of the mails. Later, inquiries were received indicating that the same individual was attempting to do business again under a different firm name. His activities were checked through the cooperation of the local Better Business Bureau in that city and the Post Office Department was notified of our findings. This resulted in an extension of the fraud order to cover the new firm name and the fraudulent practices of this individual were stopped.

During the past few months we have learned of the existence in the retail market of three makes of tubes put up in boxes simulating closely in color scheme and lettering the cartons used by two leaders in the industry. Letters have been addressed to the concerns whose names appear on the containers as manufacturers of the tubes, but two of them were returned by the Post Office marked "Not Found." Attempts are being made at the present time to locate the responsible parties through dealers, after which full discussion of the matter will be held. Negotiations are now pending with the third manufacturer.

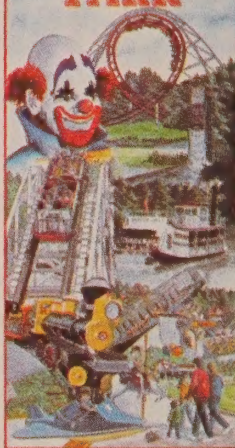
The bureau is investigating the construction features and reception characteristics of "screen-grid tube sets" with a view toward building up sufficient information to check the claims made by manufacturers of such sets. We plan to take up with advertisers all questionable claims and descriptive phrases in order to prevent unfair competition and to protect the set buyer. We shall be glad to investigate any inaccuracies which manufacturers call to our attention.

EDITOR'S NOTE: The dates are all that's different, nothing changes, the advertising is just slicker.

**HUNTINGTON
WEST VIRGINIA**



CAMDEN PARK



EXIT 6 OFF I-40, IDEA LEFT ON MARION AVENUE
RT. 40 WEST, HUNTINGTON, WEST VIRGINIA

Some of the many places the non-collector will visit during his/her trip to Huntington, West Virginia.

Huntington, W.Va.



Quality lodging in the
Heart of downtown.

 Holiday
Inn

Downtown/University Area

Pilgrim's
Cameo Glass
Collection



*Made in West Virginia
for Glass Collectors
All Over The World*



The Antique Radio Club



of America, Inc.

1993 CONVENTION

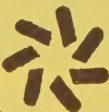
JUNE 10-11-12, 1993

The Home of:

Museum of Radio & Technology, Inc.

With Host

The West Virginia Chapter of ARCA


Holiday Inn®

HOLIDAY INN • Huntington, West Virginia
Exit #11 • Hal Greer Blvd.

Welcome!

Members and Guests to ARCA '93

As always, this is the highlight of the year for ARCA members. This year there is a lot of excitement because of the crowning achievement of a dedicated few. I am sure that the programs we have lined up for your enjoyment will be worth your time.

Huntington is a small town by most standards, but rich in history and large on hospitality. The West Virginia Chapter has dedicated its entire existence to the preservation of radio history. Now we are ready to show-off the results of these efforts - the Museum of Radio & Technology, Inc. While there is still more to be done, than has been accomplished to date, we now need the help of an entire nation to bring this to the forefront.

Activities are available to all - this is a family affair. The spouse collector half of the family, as well as the children, will be delighted with the many things that will entertain them during your stay.

Just find Interstate-64 on your map, it cuts across the nation from east to west. We look forward to seeing everyone and hope you will leave with some wonderful memories.

Geoffrey Bourne
President W. Va. ARCA
Museum of Radio & Technology

Wednesday, June 9, 1993

Early arrival Pre-Registration
Check-in 2:00 p.m. - 5:00 p.m.
ARCA Board of Director's Meeting 8:00 p.m. - 9:00 p.m.

NO OTHER SCHEDULED EVENTS

Thursday, June 10, 1993

Sun-Up to Sun-Down Open Air Trader's Market
Registration 9:00 a.m. - 12:00 Noon
Old Equipment Contest Check-in 9:00 a.m. - 12:00 Noon
*(Only entries entered by 12:00 Noon are eligible
for People's Choice Award.)*
Registration 1:00 p.m. - 4:00 p.m.
Contest Equipment Viewing &
People's Choice Balloting 1:00 p.m. - 4:00 p.m.
The Ladies' Collector's Corner 3:00 p.m. - 5:00 p.m.
(Conducted by Kathy Koester, Patsy McIntyre & Barbara Rankin)
Viewing of Collectables - Open to Everyone 4:30 p.m.- 5:30 p.m.
Dinner on your own 5:30 p.m. - 7:00 p.m.
*(Directions and limited transportation for those
who cannot take their own vehicles.)*
Museum will be open 7:00 p.m. - 10:00 p.m.
(A special presentation for your enjoyment.)
*No scheduled seminars this day, to allow for contest set up and
viewing, and ample time for the "Trader's Market".*

Friday, June 11, 1993

Sunup to Sundown Open Air Trader's Market
8:30 a.m. - 9:30 a.m. Final Old Equipment Contest Check-In
9:00 a.m. - 12:00 Noon Registration
9:30 a.m. - 11:00 a.m. Judging Old Equipment Contest
Closed during this time

Saturday, June 12, 1993

7:00 a.m. - 8:00 a.m. Final Auction Check-In &
Old Equipment Reviewing
8:30 a.m. **Auction begins.

**** Auction bidding fees are included at registration.
Ten percent commission fee on seller, up to \$500 only.
Auction rules apply and auctioneer is the final word on bid and sale.
Please make sure you have bidder's number.**

FRIDAY EVENING BANQUET PROGRAM & AWARDS CEREMONY

Host of the evening is Larry Anderson, station manager for WWVA — America's #1 country station.

A special program narrated by Larry, and characterized by James Duffied, entitled, "The Ghosts of Radio Past". The history of radio and its related discoveries will be depicted in set portrayals of the most illustrious individuals in radio's history.

The method of portrayal of these discoveries will be Mr. Duffield doing a quick change in costumes, period of the time, with interviews and questions by Mr. Anderson. Each individual's major contribution will be presented in a working display. Revisit those exciting years as Lee DeForest, Mr. Marconi, Major Armstrong, Thomas Edison, Mr. Fessenden and others visit us from the past.

Seminar Program

9:00 a.m. - 10:00 a.m. Mel's Corner
(A panel of radio historians taking us on a nostalgic trip through the golden years of "Radio" - your host & friend - Mel Comer)

10:00 a.m. - 11:00 a.m. "Those Fascinating Old Wire Recorders"
by Webster-Chicago & Others
A working demonstration presented by the Museum of Radio & Technology, hosted by Tom Resler & Lloyd McIntyre.

11:00 a.m. - 12:00 Noon "Ethics in Collecting"
Panelist Coordinator Gerald Schneider
All afternoon activities will be at the Museum.

1:00 p.m. - 4:00 p.m. Registration
(This final registration will be conducted at the Museum in the auditorium)

1:00 p.m. - 5:00 p.m. Museum Tours

Tours will start and run all afternoon to:

Perry's Americana Museum of History

(A private museum - not open to the public.) A rare opportunity to visit one of America's unusual and exciting exhibits. There will be several working exhibits that will enthrall and facinate all. Transportation will be provided from the Museum. This is only a 5-minute trip.

4:30 p.m. - 5:00 p.m. A Short Membership Meeting.

6:00 p.m. - 6:30 p.m. "Social 1/2 Hour"

6:30 p.m. - 8:30 p.m. Banquet and Awards Ceremonies
Guest Speaker: Larry Anderson - Director of Operations at WWVA.
"Ghosts of Radio Past" - presented by Jim Duffield

9:00 p.m. - 11:00 p.m. Auction Check-In and Equipment Review

OLD EQUIPMENT CONTEST CATEGORIES

1. Crystal or Coherer Recivers 1906-1927.
 - a. Factory Made
 - b. Homemade or Kit
2. Regenerative Receivers
3. Super-heterodyne Receivers
 - a. Battery Powered
 - b. AC Powered
4. Receivers with RF Amplifiers
5. Art Deco - Metal-Glass-Plastic-Wood & Chrome, etc. **(NEW)**
6. Speakers (horn and cone)
 - a. Original "Plain Jane" Models
 - b. Exotic Models
7. Radio Advertising
8. W. Va. Radio Manufactured Equipment **(NEW)**
9. Consoles - any circuit
10. Home-built - any circuit **(NEW)**
11. Television - Pre-1960
12. Transistor Radio - Pre-1965
13. Novelty Transistor Radios - Your Choice **(NEW)**
14. Hallicrafters Receivers

Museum Entries Into The Old Equipment Contest

This special category has been established to provide recognition of exhibits from recognized museums of rare and well documented artifacts. **"The Museum Award"** will provide a setting for some of America's premier radio displays often only viewed in recognized private museums.

This award will be judged by the presidents of various regional and national clubs. This award will be known as the **"President's Museum Award"**. Radio preservation's highest award.

"Harry Houck Award" for contributions in the preservation and research of historical radio artifacts, especially in the field of super-hetrodyne receivers. The publication of an article or series of articles, the restoration or preservation of an actual exhibit and/or the evaluation of the development of super-hetrodyne principle will be used in this selection.

The above awards are bronze/wood framed plaques, suitable for any museum display. The **"Hary Houck Award"** additionally carries a very nice monetary award.

U. S. Air

Transportation to Huntington and ARCA '93

By Automobile

See Map - Interstate I-64

By Air

U. S. Air

By Train

AMTRACK

CONVENTION DIRECTORY

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(304) 525-3508 Fax

1415 Fourth Avenue

Huntington, WV 25701

Sue Gunter - Sales Coordinator

ARCA Conference Headquarters

5268 Webb Street - Aliquippa, PA 15001

ARCA Conference Chairpersons

Geoff Bourne - John Haught - Zane Parsons

Huntington Convention & Visitors Bureau

1-800-635-6329

Disclaimer

Neither The Antique Radio Club of America, Inc., nor the clubs and organizations listed on the front of this pamphlet, will be responsible for personal injury, fire, theft, or any other loss of equipment which may occur during this conference. Make sure you and your equipment are insured.

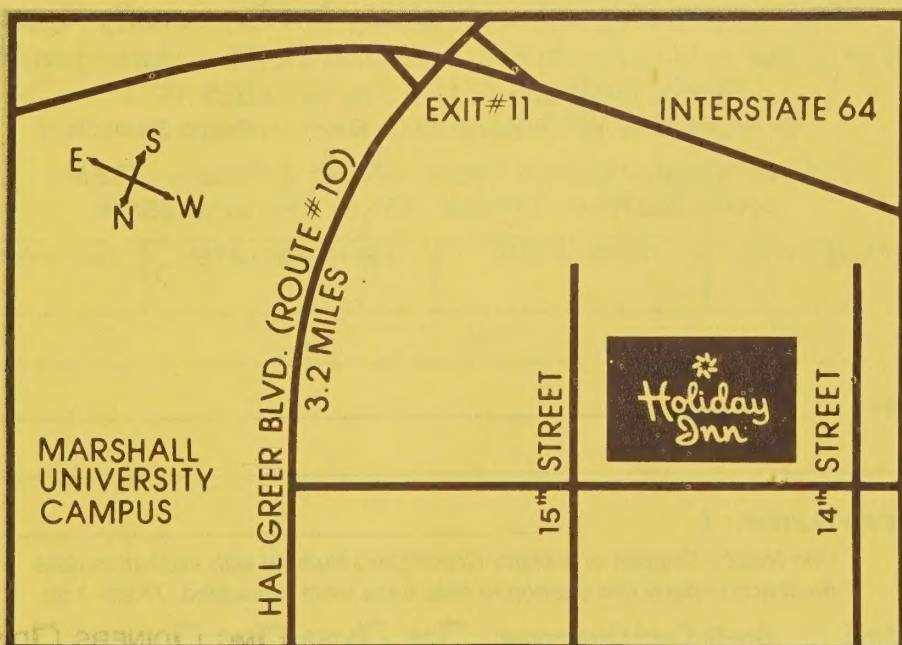
This conference is a private function of The Antique Radio Club of America, Inc. (ARCA) and the Museum of Radio & Technology, Inc. All programs, program formats, contests, results of contests, auctions and all other features of this conference are the sole property of ARCA and may not be copied, disclosed, published or used in any way whatsoever without express written permission of ARCA by its executive officers.

HUNTINGTON, WEST VIRGINIA

POINTS OF INTEREST

- * 1. Berryhill House of Garden & Craft Center
- 2. Birke Art Gallery
- * 3. Pilgrim Glass Company
- 4. Camden Park
- 5. Crickets Dinner Theatre
- * 6. Heritage Village
- * 7. Huntington Museum of Art
- 8. Museum of Radio & Technology, Inc.
- * 9. Ritter Park
- * 10. The Rose Garden
- 11. Antique Mall
- * 12. 14th Street Antique Shops
- 13. Collis P. Huntington Train Displays

*Included in spouse tours.



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ARCA - '93 CONFERENCE REGISTRATION

Mail before May 29 to: ARCA Conference Headquarters

312 South 10th Street • Akron, PA 17501

Description	Fee	No. Persons	Total
Advance Registration before May 29	\$12.00	Family	
After Closing Date & At The Door	\$16.00	Family	

*Above Registration Includes Trader's Market & Auction Entry.
No Additional Charges For These Activities*

Transportation for events, museums, \$6.00 ea.
Ladies' events, etc. require one ticket for each person. All three days included.

Friday Awards Banquet

Entrees Choice: Roast Prime Rib of Beef \$17.50

Baked Ham with Apple & Raisin Sauce \$14.50

*Above Entrees Include Fresh Fruit Cup, Mixed Green Salad with Dressing,
Stuffed Baked Potato, Broccoli with Butter Sauce, Dessert (Strawberry Parfait),
also inclusive of Rolls, Butter, Coffee, Tea or Milk.*

Make Check out to ARCA and mail to above address TOTAL

1993 ARCA Membership (Membership Not Required To Attend)

Name _____

Address _____

C/S/Z _____

**PICK UP YOUR PRE-REGISTRATION PACKET CONTAINING TICKETS, NAME TAGS,
AND OTHER DOCUMENTS AT CONVENTION TIME. THANK YOU FOR YOUR EARLY
RESPONSE.**

ROOM RESERVATION REQUEST

Mail before May 20 to: Holiday Inn University Area

Reservation Office • 1415 Fourth Ave. • P. O. Box 2172 • Huntington, WV 25701

Phone: (304) 525-7741 • Fax (304) 525-3508

(Late Reservations Will Be Accepted On Room Availability Basis Only)

Rate: King Bed Room, 1 Person - \$52.50; 2 Persons - \$52.50

Double Bed Room, 1 Person - \$55.00; 2 Persons - \$55.00

ARRIVAL DATE:	CHECK-IN TIME:	DEPARTURE DATE:	CHECK-OUT TIME:
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Name: _____

Address: _____

Telephone Number: () _____

*One Night's Deposit or a Major Credit Card Number with expiration date
must accompany this coupon to hold each room requested. Thank You.*

☐ Deposit by Check Credit Card Guarantee: ☐ AE ☐ VISA ☐ MC ☐ DINERS ☐ DISCOVER
Card No. _____ Exp. Date _____
\$ _____ Signed _____

LADIES PROGRAM

Thursday, June 10, 1993

9:00 a.m. - 12:00 Noon Berryhill House & Garden & Craft Center
318 Norway Avenue
Huntington Museum of Art
Ritter Park, The Rose Garden
Heritage Village (Luncheon)

Thursday Afternoon The Ladies Collector's Corner

Thursday Evening Museum of Radio & Technology

Friday, June 11, 1993

A.M. Pilgrim Glass Company
14th Street Antique Shops
Lunch - Location to be posted

Friday Afternoon Perry's Americana Museum of History
*(You will be delighted at the country "General Store" and then
on to the main "barn" for other very interesting exhibits.*

Saturday, June 12, 1993

Saturday Morning Kenova Historical Museum
Civil War Re-Enactment & Western
Shoot-out being performed just for you.

A. D. Ransdell House, circa 1858,
Ceredo Historic Landmark
Ceredo "ceres" was named after the
Greek Goddess of Grain.

Saturday Afternoon The Bourne/MacMillen turn-of-the-century
Victorian home. View a variety
of collectibles, including Geoff's radio
collection. Located in St. Albans, WV.

The Fun of Collecting - Female Sale

by Sarah M. Haught

Isn't it great to plan and look forward to another year of antique radio meets and events? Little did I know that in just a short time of collecting novelty radios that I too would become interested in the same hobby as my husband John, who has been interested in radio collecting, restoring and building sets for over 30 years.

Although I have always gone with John to all the annual events, where I looked forward to seeing friends and attending sessions, and being a part of the flea market crowd, I never dreamed of becoming interested in collecting novelty radios. You can blame it on one of two things, the color *RED*, my favorite color, or my husband John. Could it have been con-

My first novelty radio collectible was the bright red Coca Cola Mini Cooler, Model MC-194

trived, just to get me interested (he says not)? Or, maybe the recent exposure to so many novelties at the various events. Really, who can ignore those little innocent pieces of bright, colorful plastic, that seldom requires cleaning, repairing, hours and hours of adjusting or polishing — as required by those giants my husband drags home, hides (he thinks) and eventually restores to

showroom condition.

My first collectible was the bright red Coca Cola Mini Cooler, Model MC-194 (yes, I even know model numbers). John was with me, noting that it was new, red, and included not only the AM band but also FM/TV1 and WB/TV2 — couldn't refuse this one (and what turned out to be many more). I am listening to this radio as I write this. How practical, don't you think also? It was either John's fault or the color red — I will never know.

My next acquisition was the beautiful Cabin Cruiser (with radar). After all, John would just love it, as he was in the Navy, we presently have a boat on Lake Arthur, and I couldn't resist the bright red bottom — it also included the battery and it played! I couldn't pass this one up (Where have I heard this statement before).

Next purchased was McDonald's French Fries, Plate 362, Page 18, Robert F. Breed's book, *Collecting Transistor Novelty Radios*. You see, I had to purchase this book for a guide and identification source — John has shelves full of reference books and magazines; he wouldn't care if I had just one.

Now I am getting concerned. Will I become addicted and claw my way into car trunks or the back of pickups when they arrive at ☞

our flea markets? Or Heaven forbid, start running after cars when they arrive?

After purchasing the McDonald's Fries, we (notice I said "we") just had to have the Hamburger, and the Pepsi can. After all, what is a hamburger without french fries and a Pepsi?

Now I am gaining confidence, and venture into the flea market area by myself. After all, John might miss a good buy, like a Pilot Super Wasp, or SW3 (whatever these are) if he had to be with me and my novelty shopping excursions. Armed with my *Breed's* book, buying hints from John's experience (one no-no, don't buy any with missing battery cover plates) I am ready for flea market adventures.

After purchasing a few novelties, I am learning how to "negotiate". John installed some display shelving, which has remained "off limits" to his collection — wasn't that thoughtful of him?

As a new year of events are beginning, and advanced reservations are being confirmed, I have convinced myself I am not addicted and can ignore purchasing any more radios . . . anybody out there have an extra Heinz Tomato Ketchup to go with the McDonalds French Fries? 

Ed. Note: Now is the time for all you ladies to begin preparing your collection (whatever you collect) for display at the ARCA '93 Convention. Our Ladies "Collector Corner" was a great success at ARCA '92 and will be repeated for ARCA '93.

Member Letters

Yes! Bill — Please renew this great publication. Thanks,
Sam Jansen — W6BBN. ☺

I read in the *Antique Radio Gazette* page 52 about the Old Tyme Radio Centre in Canada. Unfortunately, no address was given. Do you know where it is located? Thank you very much.

— Chris Bisailion VE2CBK,
1324 Old Carp Rd., RR#1
Kanata, Ontario, K2K1X7,
Canada.

Editors Note: See Page 38.

Enclosed is my check No. 2069 for my 1993 ARCA dues, in the amount of \$12 for one year. The last time I sent for the 5-year, but at my age I probably won't last another five. My next will be 80, if I make it, so I will just go for one at a time.

If you talk to Mel or Bill and Jane, give them my best regards.

Hope to be able to meet you in June at Huntington.

Please put my Amateur call sign, N8VCD, on the mailing label

— Arnold R. Dilley, A.E.E.T.,
South Charleston, WV.

The dues envelope is a great idea and reminder.

— Dick Mackiewicz,
Coventry, CT.

See page 47 for more letters.

THE HALLICRAFTERS STORY

1933 — 1975

by Max de Henseler

HB9RS

Looking back to the past is often a symbol of decline. But at a time when American radio manufacturers have almost completely disappeared from the amateur radio world market, the mind seeks refuge in a glorious past.

Collectors have developed a deep nostalgia for the 'good old days', when the brand names of American manufacturers were household words for the amateur radio world community. The sky was the limit, and the conquest of the skywaves by "riding" or "defying" them was the "challenge" of the Hallicrafters.

This historical review was undertaken from an amateur radio and collector's point of view, and, accordingly, it covers the range of communications equipment that was used by amateur radio operators, mainly short wave communications receivers, main transmitters and transceivers. It is not intended to cover the whole production of the Hallicrafters Co., and dozens of models have intentionally been left out.

MAX DE HENSELER

THE HALLICRAFTERS STORY

1933-1975



OVER TWO HUNDRED PHOTOS

This very large 8½x11 — 278 page book is a must for every collector and especially the Hallicrafter buff.

We are able to offer this book for only **\$16.95** plus **\$2.00** shipping USA, **\$5.00** all others. Proceeds from this sale benefit your club.

ORDERING INFORMATION

MAKE CHECKS PAYABLE TO:

ANTIQUE RADIO CLUB OF AMERICA, INC.
312 South 10th Street
Akron, PA 17501



RCA Victor Model 7-BT-10K Transistor Radio and Battery.

(Story on page 22.)

MR. GRIDLEY

© 1993

"Early 1937"

by Ron Boucher



OLD TYME RADIO CENTRE MOVES TO BELGRAVE

by Bonnie Gropp

When Gary Clayton's hobby outgrew his Walkerton home he knew the time had come to branch out. So The Old Tyme Radio Centre has come to Belgrave.

Since Mr. Clayton began restoring old radios four years ago, the hobby had grown to such a point where it had taken over the living room of his Walkerton home.

When Sutton's Country Store in Belgrave became available Mr. Clayton and his wife Nellie saw it as the answer. Their love of rural living, coupled with their amazing antique radio collection, made the ambiance of the old store and house just perfect.

Entering The Old Tyme Radio Centre is like a walk back in time.

By appointment, customers are invited to visit, browse and remember.

Radio prices are upwards of \$200 for table models to \$400 for floor models. A 1929 Spartan, which Mr. Clayton purchased in Lansing, Mich. holds a special place of honour near the front window. Its value is \$2,000.

To enable him to better find these treasures, he is a member of the Michigan Antique Radio Club as well as the Antique Radio Club of America and London Vintage Radio Club.

Mr. Clayton's first radio restoration happened somewhat by accident. A woman, who knew about his love for refinishing

furniture asked him to do a small table model radio for her. "At the time I knew nothing about the 'innards'," he said, adding that a friend did those repairs, but the restoration work was seen and admired



"THE OLD TYME RADIO CENTRE"

*Antique Radios Sold
Restored & Bought*
"VISIT OUR SHOWROOM"

GARY & NELLIE CLAYTON

9 Queen St., Belgrave, Ontario, Canada N0G 1E0
(519) 357-4304

Vintage radios from as far back as a 1925 Rogers Batteryless to a 1958 Germany Graetz grace the interior of the store, while antique clocks provide a nostalgic audio backdrop.

by many. With more demand and hands-on experience he soon caught on to the electrical repairs and today he had 10,000 tubes in stock ready to go into radios. "I have enough radio parts to keep

me going until I'm 100-years-old."

Restoring these antiques, his own and others, takes Mr. Clayton about 50 hours and is, he says, "a labour of love." Keeping the past alive is more important to Mr. Clayton, he says, than making money from the work. He picks up most of the radios from private sales or at auctions, ones, he says, which would have in their day cost anywhere from \$100 to \$400, about the price of a Model A.

His wife says Gary prefers the old craftsmanship so all the radios are stained by brush, not sprayed. "He has always had an interest in the way older things were built; when they took pride in their work," she said.

"Yes, back in the days when they really made cars and really made radios," he said.

The finished radios are not only lovely to look at but delightful to hear. The hours of work are more than worth it, Mr. Clayton says, when he listens to the superb sound.

Many in the collection, he says, come with shortwave which brings in stations world-wide. They "pick up" a number of AM American stations quite clearly too. "They are a lot more sensitive and powerful than the radios of today," says Mr. Clayton, noting that they all come with built-in antenna.

Mr. Clayton says there is no profile to fit his clientele. "They can be someone who has had a radio like one of these in the past and would like to bring it back to their home. It can be a local farmer, a factory worker or an executive from Toronto."

While he has been an entrepreneur for most of his life, Mr.

Clayton says his radio restoration is "where his heart is". To bring out a thing of beauty from what seems to be a useless piece of furniture is extremely satisfying for him and he cautions anyone with an old radio to not give up on it, but give him a call.

Admitting that he watches little television, Mr. Clayton stresses the importance of the old "radio days". Preserving the beauty of these beautiful relics is very important to him. "They bring back memories of an era lost," he says. ☞

CHAPTER INFORMATION

Ask about a chapter in your area.

**Contacts*

Antique Radio Club of America West Virginia Chapter

408 8th Avenue

St. Albans, WV 25177

*Geoff Bourne

(304) 722-4690

Hudson Valley Antique Radio & Phonography Society-ARCA

Rt. 207, P. O. Box 1

Campbell Hall, NY 10916

*Linda or John Gramm

(914) 427-2602

Hawaii Chapter ARCA

95-2044 Waikalani Place C-401

Mililani, Hawaii 96789

*Leonard Chung

Kentucky Chapter-ARCA

1907 Lynn Lea Road

Louisville, KY 40216

*Robert Dickerson

(502) 447-6399

1993 CATALOG



ANTIQUE RADIO LABS.
R1, Box 41, Cutler, IN USA 46920
Phone 317-268-2214



ANTIQUE RADIO LABORATORIES
R1, Box 41, Cutler, Indiana 46920
Phone 317-268-2214



Vol.2 No.1

Add-A-Page Catalog

1993

Dear Collector Friend:

Back in 1988 I started to publish the Add-A-Page catalog, but for some reason or other I never followed through with it. Now I think the time has come for me to do it.

What is the Add-A-Page catalog. Simply it is this: when you send your \$2.00 I will send you the basic catalog in a plastic cover with a plastic keeper that goes on the left side and binds the whole thing together. You can see that your catalog has an attractive color cover. Periodically I will issue corrected pages reflecting our current inventory. In other words as we sell one-of-a-kind items we will issue new sheets to replace certain of your present sheets, thus your catalog will be updated several times per year.

We have just unloaded a pickup truck full of equipment taken from the science department of a small midwestern college. We are expecting more in the next few weeks. This equipment will be listed as "Laboratory Test Equipment". Other equipment will be listed as "Hobby Test Equipment" and will be priced lower than laboratory equipment.

You will note that we have a large listing of literature copies available from our extensive literature library. We have added many new items which will become added pages as time will allow.

We have thousands of new and tested used vacuum tubes which we sell for \$2.00 to \$15.00 each. Being a one man operation we probably never will have a list of all our tubes. For this reason tube sales are on a quote basis. All requests for quotes must be submitted by mail with an SASE.

We have many reprinted booklets listed. We do these ourselves with our own copy machine. We will be adding to these as time permits.

We hope you enjoy the catalog. Suggestions are always welcome so that we can serve you better.

Jim Fred, Publisher

© 1984 J. FRED

In Steel and Song

Continued from page 9

The results of the national debut exceeded even Grime's expectations. The program became an overnight sensation. Within days *Life* magazine dispatched photographer Alfred Eisenstadt to Wheeling to capture the essence of the new phenomenon in a pictorial featuring juxtaposed photos of cast members in the mill and on the stage. Reviews soon appeared in *Radio Guide*, *Billboard* and *Variety*. And in the months that followed, *It's Wheeling Steel* became a fixture on MBS. As its fame and popularity grew, so did the quality of the show's performances.

During the 1938-39 season arranger Lew Davies joined the show. A native of Ashland, Kentucky, Davies was a graduate of the Cincinnati Conservatory of Music. Having worked with the Tommy Tucker Band, Davies brought the Steel-makers Orchestra to the cutting edge of the big band sound. Band leaders like Tucker, Glenn Miller and others placed their original arrangements, and sometimes their singers, at the show's disposal. Paul Whiteman and Henry Busse offered their services as guest conductors. Robert Shaw dropped by to coach the chorus.

In addition to an ever-changing slate of employee headliners who sang, whistled or accordioned their way to fame each week, a number of new *stars* emerged during the 1938-39 season. Among the most talented were soprano soloists Dorothy Anne Crow and Margaret Ellen Smith,

tenor Arden White, and Regina Colbert, who later teamed up with Harrison Frey, Paul Jones and Russell Howard to form the quartet *Jean and Her Boyfriends*. During the spring

of 1939 the Evans Sisters — Betty Jane, Margaret, June and Janet — replaced the Steele Sisters, who were invited on an extended tour with Horace Heidt and his Brigadiers.

Another 1938-39 addition was 62-year-old payroll manager John Wincholl, who was introduced to listeners as an "old-timer of pure Scottish strain," Wincholl replaced Pat Patterson as master of ceremonies and before long *The Old-Timer's* crisp burr became one of the most recognized voices in America.

The show's following on the Mutual network continued to grow. *Radio Guide* noted that the program's network carriers had increased to 23 stations in October 1938. *Time* magazine placed the number at 27 nine months later.

The *Time* article was prompted by a momentous event in the early history of the show, a season finale broadcast live from the Court of Peace at the New York World's Fair on Sunday, June 25, 1939. Dedicated to West Virginia Day at the fair which had occurred on June 20th, the performance drew a record live audience of over 26,000. The cast was officially welcomed to the city by Mayor Fiorello La Guardia, and hailed as the pride of the Mountain State by West Virginia Governor Homer A. Holt.

Several weeks later, in honor of the radio program's many triumphs, Wheeling Mayor John J. Mathison declared September 12, 1939, "It's Wheeling Steel Day" in Wheeling.

According to one reporter, "the entire town turned out to fete the Steel-makers with parades, exhibitions and various awards honoring the recognition that they had brought to the city."

After two more seasons as one of the most successful programs on the Mutual network, *It's Wheeling Steel* jumped to the larger NBC Blue Network in October 1941. The show's carriers increased to over 50 stations and its audience swelled into the millions. Grimes's most ambitious predictions had come true. Company morale soared and *Wheeling Steel* had become *public pals* with America.

Ironically, however, just as the program's advertising potential approached its summit, the company's need to promote its wares was virtually eliminated. On Sunday, December 7, 1941, *It's Wheeling Steel* was broadcast as usual from the Capitol Theater in Wheeling. Only at the conclusion of the show did the cast and audience learn that the broadcast had been pre-empted nationally by news of the Japanese attack on Pearl Harbor.

For the next several years *Wheeling Steel* had an open contract with the United States government to

manufacture essential items for the war, including steel mats for landing strips, fins and carrier bands for bombs, and all manner of its famous *Red Label* pails, tubs and garbage cans.

High level discussions within the company debated the future of *It's Wheeling Steel*. Some executives favored cancellation or at least suspension of the program. Others, with a greater appreciation of the broad esteem that the company had gained through the show, felt an obligation to continue the program and dedicate it to supporting the war.

The latter camp won, and for the next several years the Musical Steelmakers projected a patriotic image of productive workers contributing to the war effort "in steel and song." Company advertisements were suspended and the Old-Timer began to plug war bonds instead. The show went on tour, broadcasting live before crowds of servicemen and performing special bond benefit programs.

A series of *Buy a Bomber* shows were broadcast nationally from selected West Virginia cities during the spring of 1943. 

Date _____

YES! I want to receive the best of West Virginia traditional culture in each issue of *Goldenseal*. I am enclosing \$ _____.

Name _____

Address _____

The cost of a *Goldenseal* subscription is \$15 annually.

Make checks payable to *Goldenseal*; mail to: **Goldenseal**, The Cultural Center, Capitol ComplexCharleston, WV 25305.

In Steel and Song

Continued from page 43

Host communities were challenged to buy enough bonds to purchase a medium bomber at \$175,000, or better yet, a Flying Fortress at \$300,000. The planes would go into battle bearing the benefactor city's name. Programs in Parkersburg, Clarksburg and Fairmont all handily exceeded their goals. The final program of the series broadcast live from the West Virginia University field house in Morgantown, generated an amazing \$663,000.

By mid-1943 *It's Wheeling Steel* had risen in popularity to fifth among

Label. They had several pails and G. I. cans right here in camp. When I tell them that I'm from Wheeling they invariably say, 'Oh yes, that's where that radio program

comes from.'"

When *It's Wheeling Steel* entered its eighth season on September 26, 1943, over a 97-station network, the show was at the height of its popularity. The eighth season, however, was to be its last. Surviving cast members offer various explanations, but all agree that a major factor was the decline in health of John Grimes, always the driving force behind the show. The final program, the 326th *original family broadcast*, aired on June 18, 1944.

The show left its mark on popular entertainment. A considerable number of Musical Steelmakers went on to significant careers in music and broadcasting. Lew Davies found employment writing arrangements for Perry Como's *Chesterfield Hour*, which

One G. I. pondered, "I wonder if all of you know how it made a lonesome man feel, somewhere in the Pacific, when he heard the Steelmakers come over the air Sunday night?"

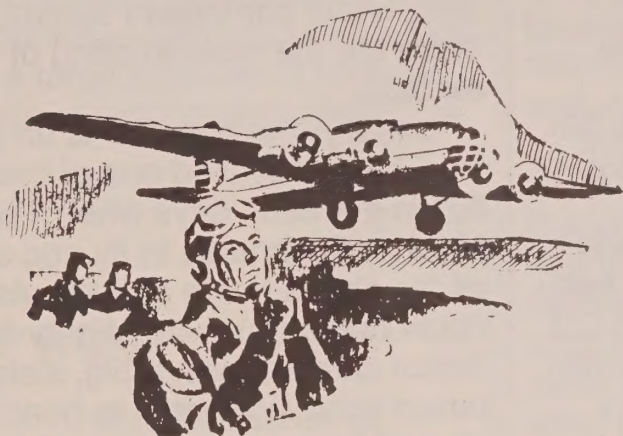
all of the shows of the NBC lineup. In addition to airing over 84 American radio stations, the show was beamed overseas and into the trenches by shortwave.

Letters addressed to the Old-Timer poured in from grateful servicemen around the globe. One G. I. pondered, "I wonder if all of you know how it made a lonesome man feel, somewhere in the Pacific, when he heard the Steelmakers come over the air Sunday night?" Another writer, a Wheeling native, marveled at the proliferation of Wheeling Steel products he encountered daily: "Can't get away from that old Red

was broadcast live from New York's famous Chesterfield Club. When the club closed Davies was hired by bandleader and recording industry mogul Enoch Light to help launch Command Records, the first high-quality stereo record label to hit the market. Davies wrote arrangements for Command stars Tony Mottola, Doc Severinson and many others.

During the early 1950s Lawrence Welk asked Davies to assist him in developing a music variety program for television. Steel Show alumni contend that the Welk show's format and family orientation were directly descended from *It's Wheeling Steel*.

WILL YOU HELP MONONGALIA COUNTY BUY A BOMBER?



**\$300,000
WILL DO IT!**

*Let's Show Our Boys That We
Are Behind Them 100%... That
We Are Fighting With Them!*

Many more Steelmakers found positions with big bands and symphony orchestras. Drummer Eddie Johnston joined the Henry Busse band. Tenor saxophonist John Olszowy signed on with Tommy Tucker. Ernie Mauro played lead alto sax for Benny Goodman. Trombonist Mal Stevens performed successively with Ted Fiorito, Franky Masters and Fred Waring. Violinist Earl Summers formed a band of his own (which included several other former Steelmakers) and later held first violin and concert master chairs with the region's leading symphonic orchestras, including the Wheeling and Columbus symphonies and the Pittsburgh Ballet and Light Opera.

Other cast members had relatively brief but significant engagements which transcended the show. Regina Colbert and Sarah Rehm made brief appearances on network programs, in New York and Chicago, respec-

tively. Child star Carolyn Lee went to Hollywood and starred in a movie with Fred MacMurray and Madeline Carroll. Most if not all of the Steelmakers performed locally on an occasional or regular basis for many years.

Looking back, it's clear that *It's Wheeling Steel* was an experiment, not only in corporate relations and industrial advertising but in commercial broadcasting and popular music programming as well. Contemporary critics and broadcasters were impressed by the results. "Accepted chain commercial broadcasting practice was upset . . . and industrial advertising history was made," wrote radio pioneer George W. Smith, "when men of steel became men of entertainment for 30 minutes each Sunday afternoon." 

—Article courtesy of *Goldenseal Magazine*

MEL'S CORNER



By Mel Comer

The winter season is now among most of us and the old snow shovel keeps busy these days.

However, in our early days this was the height of the DX season — when long-distance stations *sparked* in on our dials! Few will remember now the growl of a hefty *sparker* warming up with a big CQ — “Who’s there?” Then, in shifting around the dials, came a rotary gap building up the RPM’s — answering the CQ’er, “Where are you? What’s the weather there?” “So, you’re pumping a Thordarson - Quarter KW?” “What? Ice on your antenna — warm here!” “You say you blew two of those Murdock *Mud* condensers in a *kick-back* last night? That settled for our oil burner!” “Better check the gap settings of your *kick-back* preventor to see what goes.” More *yack-yack* and then comes that slowing famous sound of a rotary gap to a sign-off.

Those were the great early days when *spark* stations were still legal. The *Hams* were multiplying then. If you lived next door with a radio of that time to a *sparker*, it was either you or him! Many modifications were tried out. Few really worked successfully.

The days of *spark* are now long gone, but collectors still hear and read about them.

We find collectors who own a *spark* rig knowing all the dangers that can be had — in the *wrong*

hands. A Ford spark coil spark transmitter can wake you up! But a big Thordarson transformer on there may possibly put you to sleep — permanently. Shown in museums, under competent control, these are the most exciting of exhibits.

Usually, the operator is an old-time *ham* who used one of these rigs in the early days when it was *legal* for the sparks to fly and smell all the ozone being emitted. And no doubt had a four-wire, eighty-foot, flattop antenna with a big, slate-based lightning switch to head off storms! Not many of these fellows are around anymore.

We still see a number of old-timers arriving at radio meets looking for parts-components of their favorite manufacturer’s items. Has our radio hobby kept these fellows alive and healthy all these years (with sharp minds of remembrance)? Did retirement give them that ability to carry-on? You bet!

NEWS OF THE NEW ARCA MUSEUM

President Lloyd McIntyre called recently saying everything is progressing in great shape.

Many long, hard hours have been spent by dedicated members refurbishing the building itself. Then comes erection of shelves, display areas and other facilities as well. It’s a never-ending job — along the way.

Placing the various categories of sets, their evaluations in light of desirability where research is required, takes time.



Donations of sets and loads of parts-components have been most gratefully received. Many surplus duplicates will be made available to members at our National ARCA Convention held June 10-12, at Huntington, West Virginia.

More details on the meet coming later on, but it is one you will not want to miss! A grand crowd, a big flea market — with lots of goodies! Even a large museum of various artifacts — just minutes away! 🐸

Letters to the Editor

That interesting article, *The Sink Circuit*, by our good friend Jim Troe (GAZETTE, Winter 1992), brought back some memories. In the mid-1920s, while in high school, I frequently operated radios without an antenna, simply by attaching the ground lead to the *antenna* binding post. To my surprise, most stations continued to come in very well, both local and distance.

At that time, I imagined that the earth was acting as an antenna. But looking back today, I conclude that the earth ground continued to function as such, even though attached to the antenna end of the radio's antenna coil. I believe that what I had was a kind of vertical antenna, comprising the radio itself with its ground lead-in wire, top-loaded, as it were, by the radio's A, B, and C batteries. Obviously, the R. F. Field, in which the radio and its batteries were immersed, generated R. F. Currents in this *vertical antenna* which flowed to ground by way of the radio's antenna coil and ground wire. Such an arrangement might not be effective with AC-operated sets, or with battery sets operated from a power supply unit, where all supply circuits are bypassed to ground.

One topic per letter should be enough, but I can't resist adding the following. After my 75-foot wire antenna came down in a recent storm, I decided to modernize, and acquired an *Active Antenna* (from Little Rock, no less!). It consists of a telescoping whip or monopole antenna which, in combination with a wideband RF amplifier, provides a signal such as one might expect from a good long-wire outside antenna. I now use this in my 🐸

L

E Hi Lloyd!

T You certainly deserve
T more than a *pat on the back*
E for all the work you and all
R those volunteers have
S accomplished with that
museum. Some darn hard
work involved there!

I was writing *Mel's Comer*
when you called — which
gave me my finishing touches.

Next issue of *The Gazette* —
why not place an insert, "We
need more articles for *The
Gazette?*" "Long ones, short
ones. Take your favorite manu-
facturers — look them up. Tell us
all you know about them,
shortcomings or otherwise.
Maybe you have a set that
deserves a write-up: *How I Built
A Crystal Set*, etc. What started
you in this wireless-radio hobby,
etc.

Example: Last issue of *The
Gazette* I placed an ad for a
porcelain base rheostat — dam
hard item to find these days. The
day it hit in New York — here
comes my rheostate. *Gazette*
ads work!

—Mel Comer

basement workshop where it provides excellent signals. The only problem encountered was interference from an adjacent 40" fluorescent light fixture, which I now turn off whenever I want to fish for weak signals.

Lloyd, you and Publication Staff are doing a great job on *The Gazette*. We all thank you.

— Bill Denk

I was somewhat dismayed when I received the Winter edition of *The Gazette* and found that the cost of membership had risen *four bucks* to members living across the border! As a member since 1977 this is the first time that Canadians have been penalized! I realize that costs have gone up, including postage and processing, but U. S. memberships are still the same! It can't be postage increases, as off-shore states of the U.S.A. (Hawaii, Alaska and Puerto Rico) do not indicate an increase! As all funds are in U.S.A. dollars, it can't be the weakness of the Canadian *buck*! It's quite disconcerting to realize you're a "foreign-national" in what I always assumed to be a North American-wide organization! As a point-of-interest, my AWA membership is still the same price to me as that of a member in Podunk Junction, U.S.A.!

One of the joys of being an *Ole Geezer* is that one complains when they see something that doesn't *turn-them-on* and the \$4 didn't! I've enjoyed *The Gazette* all these years and its become like an old friend who would be missed if I didn't subscribe. So, enclosed find a money order for \$20 U.S. funds and you'll find that quite a few Canadians are concerned with the

increase as our conversations on 80 and 2 meters have revealed!

— Fred W. Creed, VEDZ

Editor's Note: Sorry for the omission of the membership for Canada. It is only \$14. This was adjusted for postage only. Membership is still \$12 as in U.S.A. We love our Canadian members.

Please extend my membership in ARCA to five years. *The Gazette* gets better each year. I love the color pictures. Keep up the good work.

— John Kendall

Sure enjoy the material and layout of our *Radio Gazette*.

My best to the boys.

— Lester P. Rayner

Of course I am excited about ARCA.

Your *Gazette* is a very good publication and I look forward to joining one of your meetings in the future. So far, the timing has been better to go to the AWA in Rochester for me.

Please find enclosed the fee for five more years.

— Bengt Svensson, Stockholm, Sweden.

(See copy of his homemade stamps on page 21).

Please find my check for \$12 enclosed for my 1993 membership dues. I believe that ARCA is one of the finest Antique Radio Clubs around. My wife and I were very pleased with the latest meet in Pittsburgh, held in June 1992.

— Ted Babcock

Have You Ever Been Lonely? Have You Ever Been Blue?

by David W. Kraeuter

A close observer would perceive immediately that one of the young men had his mind on something other than the current conversation. At the right moment that young man quietly left the group of workers who were resting in the barn after their lunch. At the barn door he checked over his shoulder a second time to make sure no one noticed his leaving. Outside, he vaulted the pasture fence and walked along the side of the barn toward the creek. The other young men's laughter and talk of ball games and romantic adventures receded as he made his way along the ruts that served as a road for the tractor.

He remembered the location of the tool shed from the times they had worked this farm before. He opened the wooden door and quickly took the three steps that led him up and into the shed. Quietly he closed the door and walked the length of the enclosure, past the table littered with tools to the three shelves stretching across the wall at the shed's end. There on the top shelf, just as he remembered, an old Crosley Fiver DeLuxe still moldered in the dust.

That same close observer would now notice how the young man's demeanor changed at that moment, how his attention became entirely focused on the radio. All else fell into periphery. The young man

simply looked at the radio for several minutes. Then he began to touch it and turn its knobs.

Then he gently drew the radio down from the shelf and held it close on his lap as he sat on an old keg of roofing nails. He used his loose shirttail to wipe away some of the dust and grime from the radio's wooden cabinet. He turned the radio sideways and very carefully peered into the open back of the cabinet, almost as if he was afraid of getting shocked, even though he knew the radio wasn't plugged in. With his excitement growing, he knew he couldn't resist much longer. At last he slowly slid his hand into the cabinet and along the chassis top, past the scattered debris of mouse dung, chewed cardboard, seed hulls, and cobwebs. His face was transfixed. His hand paused briefly at the power transformer before his trembling fingers slowly wrapped around the cool metal shield of the 6A7 converter.

Outside, a rooster crowed.

The young man brought his face close to the radio's dial. Now, with his lips only inches from the small puckered opening of the escutcheon, in the still midday intimacy of the shed he heard his half-choked voice breathlessly whisper, Give me a kiss! ♥

See color photo on page 21.

Ye Old SWAP SHOP



FREE ADS

Up to 12 Gazette lines of copy are available to ARCA Members. We do ask that you print or type your ad on a separate sheet of paper, and be sure to include your name and address. We reserve the right to edit all ads. ARCA is not responsible for any transactions.

Owing to time constraints, we cannot extensively proofread names, addresses, or numbers. If a mistake appears in your listing, please notify the GAZETTE and we will print a correction in the next available issue.

FOR SALE: Philco table 610T. Chassis fair, plays, modern speaker, cabinet good, restored, \$100. RCA 18T, 95% original, plays good, cabinet very good, one P. B. lost. \$75.

FOR SALE: Frequency modulation monitor, Serial #1, manufactured by Browning Laboratorys, best offer. (412) 225-8761, after 6 p.m.

FOR SALE: Bright Red AU 190 Emerson Catalin, best offer. No chips or cracks, original cond. (unpolished), plays good, line cord frayed but works, will not ship but can bring to most radio meets within 500 mi. of Buffalo, NY, send \$2 for set of pho-

tos. Larry Babcock, 8095 Centre Lane, E. Amherst, NY 14051; (716) 741-3082.

FOR SALE: Federal 61, in great cond., all details checked out in working order, best offer around \$1,200, may consider trade. Allen Kuykendall, P. O. Box 22, Leraysville, PA 18829; (717) 744-2255.

FOR SALE: Entire collection: Consoles, table radios, parts, tubes & test equip., sold as lot & pick up only, no list or cherry picking. Dick Haynes (K9RGH), 12511 S. 83rd Ave., Palos Park, IL 60464; 708/448-4577.

FOR SALE: Two-tube National NFM-73B narrow band FM adapter, made to plug directly into National NC-173 receiver, w/instruct. & service sheets, \$15. RCA WG-290 high-voltage (30 KV) probe, usable w/any VTVM or VOM w/instruct. book, \$10, all ppd. Ken Greenberg, 4858 Lee, Skokie, IL 60077; 708/679-8641.

FOR SALE: Fisher manuals (copies) & some parts. Al Pugliese, 27 Daleham St., Staten Island, NY 10308; 718/948-7489, evening.

FOR SALE: Rider manuals 1-5, abridged & Volumes 6-11 w/extra 11 & 14, \$125/all; Sams photofacts #1-90, \$60; all plus shipping. No singles sold. Mr. Loren Willis, KA9SYC, Box 282-301 S. Plum St., Farmland, IN 47340; 317/468-7437, before 6 p.m.

FOR SALE: Many of your favorite old-time radio shows on tape cassettes. Select the shows you want and purchase them by the hour. Fast, friendly service. Send for our catalog listing, nearly 5,000 arranged by category & title, \$2, **plus** P&H. Erstwhile Radio, P. O. Box 2284, Peabody, MA 01960.

FOR SALE: Grill cloth for 1930's radios, usable in hundreds of table sets and consoles of the 1930s, all designed from original cloth used in these sets, send 29¢ & large SASE for sample sheet w/12 great reproduction patterns. More patterns on order. Michael Katz, 398 Daleview Ave., Seaford, NY 11783; 516/781-6202, evening.

FOR SALE: Atwater Kent 20 w/horn & tubes. Hugh Metcalf, 333 Palomar, Lodi, CA 95242; 209/369-7349.

FOR SALE: 25 sets of Sams, below no. 44 & Riders VII, VIII, IX, X, XI, XII, XIII, XIV - I need a Sams 30. Electro Voice communication radio & adjustable DC 0-35 volt power supply built by Sola Electronics of Chicago, sell or trade for old radio or phonograph, SASE or call. Walt Wrabek, Rt. 4, Merahga, MN 56464.; 218/564-4623.

FOR SALE: (or trade): Misc. collectible tubes, some good, some display, long SASE for list. Sam Wrenn, 2314 Seminole #1207, Arlington, TX 76010.

FOR SALE: Fisher manuals (copies) & some parts. Al Pugliese, 27 Daleham St., Staten Island, NY 10308; 718/948-7489, evening.

FOR SALE: Weston 45 & 155, nice cond., \$25, **plus** UPS. Brian Rhodes, 72 Mt. Herman Rd., Blairstown, NJ 07825; 908/459-4583, evening.

FOR SALE: British valve and wireless publications and ephemera 1925-1960. Early Magnavox R3B base/driver; several battery sets. Ten-page list, 58¢ loose U.S. stamps. Roger Hart, 4533 Harvard Ave., Montreal, Quebec, Canada, H4A 2X3; (514) 483-3857.

Society for Preservation
of Antique Radio Knowledge, Inc.
(SPARK) SWAP MEET

April 22-23, 1993
8 a.m. - 3 p.m.

AND

GREAT DAYTON HAMVENTION

April 23-25, 1993
Moraine Civic Center
3050 Kreitzer Rd.
Dayton, Ohio

**From I-75 take Exit 50-A, go
South on Dryden Rd. 1/4 mile,
turn right on Kreitzer Rd.**

Contact:
**Harold Parshall 513/298-4044,
days; Jim Di Ruzza 513/23-
5004, evening.**

FOR SALE: (or trade): Sams auto radio series AR-23, 40, 41, 44, 46, 87, 123, 125 & 137. George Greenberg (KD40BV), 1701 Andros Isle K-2, Coconut Creek, FL 33066; 305/971-9053.

WANTED: DeForest RJ9 or similar control switch. Switch config. is half-moon circle left side of panel, cash or trade early wireless parts, X-tal detectors, etc. Joe Nocera, 1222 Finch St., New Castle, PA 16101-4840; 412/658-7805.

WANTED: Silvertone 3351, pg. 167, Bunis, 2nd Edition. Cabinet must be very good, chassis restorable. J. T. Kaetz, 6841 Chesser Rd., Bessemer, AL 35023; (205) 491-2933.

WANTED: Farnsworth Radios. Herman Zeps, WD9JKQ, 19 S. Williams St., P. O. Box 282, Bluffton, IN 46714.

WANTED: June '39 & August '44 *Popular Science Monthly* copies. Robert Stapleford, 1800 Randolph, Topeka, KS 66604.

WANTED: '20-'23 *Citizens Radio Callbook Magazines*; '24-'26 *Citizens Radio Amateur Callbook Magazines* (Flying Horse Cover); '22-'24 *Dept. of Commerce Radio Amateur Callbooks*; '13 & '14-'16 *Dept. of Commerce Radio Stations of the U.S.* supplements; '09-'11 & '14 *Wireless Blue Book* (wireless telegraph stations list), included U.S. amateur sta-

tions. Bob Arrowsmith, P. O. Box 166, Annadale, VA 22003; (703) 560-7161, collect.

WANTED: Western Electronics *Visionette* scanning disk TV. Hallcrafters S-1 & SX-9. RCA 1847 camera tube. '30s & '40s radio premiums. Bill Ross KY9M, 875 Gordon Terrace, Winnetka, IL 60093; 800/621-0687, days.

WANTED: Parts for Radiola K-60 Console. Knobs & escuschem plate found missing at the Atwater Kent Museum. Jefery Ray, Atwater Kent Museum, 15 South 7th St., Philadelphia, PA 19106.

WHAT WILL AN AD IN ARCA GAZETTE DO FOR YOU?

- It's easy to read
- Takes little time
- Brings quick response
- It stands out
- It's free
- Try it — Results are great!

WANTED: Paragon RA 10, RD5 & amps, may trade Grebe CR 3; Federal DX58 cabinet. Also have listing of items for sale. Merrill Bancroft, 154 S. Row Rd., Townsend, MA 01469; 508/597-6625.

WANTED: Old radio w/*Magic Eye* tuning indicator & shortwave band, \$50 or less, all replies postage refunded. Carl Creque, #87-91 Escudero St., Culebra, PR 00775.

WANTED: AK 11 tuner. Will pay up to \$250 or trade AK coupled circuit tuner. Jerald Hueber, 1368 King Richard Pkwy., West Carrollton, OH 45449; 513/866-6958.

WANTED: Motorola '30-'40 radios; advertising, signs & memorabilia from that era. John Manix, 8026 Westfield Rd., Medina, OH 44256; 216/887-5355, evening.

WANTED: Weston meters & test equip., prefer early-type, mounted on wood or in wood cases; Weston manuals, etc., send photo or drawing 1st letter. Also, sale/trade many Weston & GE meters. Brian Rhodes, 72 Mt. Herman Rd., Blairstown, NJ 07825; 908/459-4583, evening.

WANTED: Rider Vol. 23, top-dollar paid; Zenith 6-B-107 & remote speaker. George Bonanno, 34 Charles St., Clifton, NJ 07013; 201/746-5953.

WANTED: Radio retailing magazines, especially issues prior to '33. Doug Heimstead, 1349 Hillcrest Dr., Fridley, MN 55432; 612/571-1387.

WANTED: Panel for Aeriola Ampli-

fier; base/driver Thorola horn; *RadioBlue* headphones. Roger Hart, 4533 Harvard Ave., Montreal, Quebec, Canada H4A 2X3; 514/483-3857.

WANTED: Fisher tube power amps; FMR-1 & FM-1000 tuners; Fisher-Lincoln turn over turntable. Al Pugliese, 27 Daleham St., Staten Island, NY 10308; 718/948-7489, evening.

FOR SALE:

FEDERAL BOOK: 64-page booklet describes Federal Tel. & Tel. from their beginning in 1921 to their demise in 1929. Over 60 illustrations including pictures of early Federal R. F. and audio amplifiers, as well as all early radios. Many Federal parts are also pictured and described. The article and speech by Dick Schamberger, the Federal expert, are included. All Federal models are listed with the year and month introduced, cost new, and brief description. The Federal broadcast station, WGR, first in Buffalo is described. There are two pages of references for more Federal information. This is more about FEDERAL than exists in any other single spot! Good quality printing. Please send \$4.95 + \$1.00 S & H to Larry Babcock, 8095 Centre Lane, East Amherst, NY 14051.

WANTED: Manuals (or copies): Sprague T.O.5 capacitor analyzer & Jackson 650-A capacitor checker. Mr. Loren Willis, KA9SYC, Box 282-301 S. Plum St., Farmland, IN 47340; 317/468-7437, before 6 p.m.

WANTED: Unusual or odd "dud" tubes for display, any size. Sam Wrenn, 2314 Seminole #1207, Arlington, TX 76010.

WANTED: Crosley "Gemschest" 609 ('29) metal console radio w/metal egret grill & false metal hinges (see Radio Manufacturers of the 1920s, Vol. 1, pg. 127); Sharp PF-116 radio w/the word "Pagoda" on side; any radios w/oriental-style cabinets (see The Antique Radio Gazette, Winter '92, pg. 43). Gerald Schneider, 3101 Blueford Rd., Kensington, MD 20895-2726; 301/929-8593.

WANTED: Sams Photofact TSM #10, #24 & folders #423 & #502. George Greenberg (KD40BV), 1701 Andros Isle K-2, Coconut Creek, FL 33066; 305/971-9053.

SERVICES AVAILABLE

Restorations - Replicas. I have facilities available with sophisticated tooling equipment. AK breadboards made to exact factory specifications; cabinets made to order — you name it — we make it. Lawrence DiBarry, 212 North 6th St., Chambersburg, PA 17201.

Chapter News continued from page 19

Radiofest 1993

August 4-7, at the Holiday Inn, 345 River Rd., Elgin, IL 60123. Call (708) 695-5000 for reservations.

Large General Auction, Contest, Special Exhibit, Donation Auction, Presentations, Hospitality Room, Awards Banquet, Muchow and Motorola Museum Tours, Open Air Flea Market each day and more!

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Rockford, IL 61107

(815) 399-1902 evenings or weekends.

50

SALESMEN WANTED IMMEDIATELY

AN OPPORTUNITY to make more than \$200.00 weekly is offered to fifty salesmen who are thoroughly familiar with the sale, installation and service of radio sets and accessories. Applicants for the position must be familiar with radio trade conditions in their locality. They must be willing to work on a commission basis. Salesmen who are not capable of earning commissions in excess of \$200.00 weekly need not apply. Our proposition applies to a specialty item which is needed daily by every radio dealer, salesman, service man and repair man. The article sells on sight. The commission to the salesman is 50%. The list price of the article is two dollars.

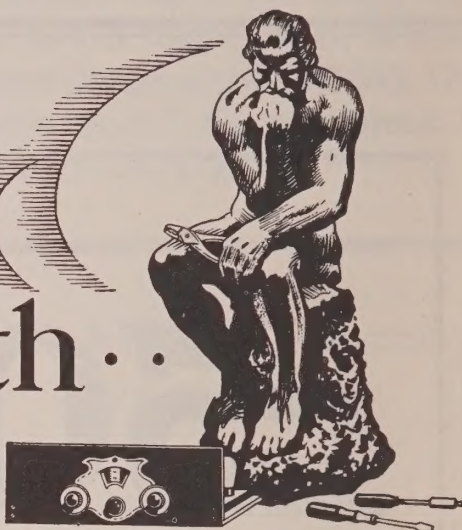
This proposition has been given a thorough try-out in some of the large cities. Out of ten calls made, eight dealers and service men bought the article. You can work this as a full or part time proposition. References must be furnished. Write today—giving full details of your sales ability, references and your home address. Send your letter by air mail to BOX 202, care of "RADIO," 428 Pacific Building, San Francisco, Calif.

Tell them you saw it in RADIO

101

EDITOR'S NOTE: *We could use a few of these jobs today. Anyone want to recommend these to President Clinton?*

As The Trade Thinketh...



H. B. RICHMOND:

President, Radio Manufacturers' Association.

"Once a year the radio industry goes on parade. It is the time of the public radio shows. Here, under one roof, the consumer may compare the engineering activities of the past year of each manufacturer, as expressed by his new methods. Thus are these shows of value, not only as a sales stimulus, but also as a catalyzer for improved engineering design."

McMURDO SILVER:

Radio manufacturer.

"Within one year the a-c screen-grid tube will become the general purpose tube, used alike for radio and audio amplification, for detection, and for other purposes which were formerly performed by the '01A type of tube. So great is its versatility and merit that it is destined to bring a distinctly improved order of radio reception to the average user."

ERNEST KAUER:

President, CoCo Manufacturing Co.

"A radio plant can be no stronger than its engineering personnel. The engineers furnish the heart-action to the radio body. No institution, no matter how great its prestige, its public acclaim, its capital structure, its sales organization, its advertising program, can keep moving forward unless it maintains the vigor and imagination of its engineering department."

WILLIAM J. BARKLEY:

De Forest Radio Co.

"There will be a serious problem in providing the necessary complement of tubes at the height of the selling season on radio sets this fall, particularly in the '24 and '45 types. Last fall, when radio merchandisers were unable to obtain better grade tubes, many set sales were lost and inferior tubes had to be used. Tubes in stock mean more than money in the bank to the radio merchandiser."

HARRY W. HOUCK:

Chief Engineer, Dubilier Condenser Corp.

"The worker or experimenter is urged to discharge the condensers of a power supply unit before attempting any changes or adjustments in the wiring of 'live' components. This can be done by shorting each condenser section with any metallic conductor and will save troublesome shocks. Just as one should not have an exposed flame about the gas tank of an automobile, so should the radio worker make sure to discharge condensers before handling them."

D. N. DULWEBER:

Treasurer, Supreme Instruments Corporation.

"The future of radio largely depends on the character of service rendered, for service determines the degree of satisfaction the public derives from its radio investments. In the coming days of keener competition, the well-equipped, well-managed service department will contribute materially to individual dealer success. The dealer not so equipped will rapidly pass from the picture."

W. B. BIZZELL:

President, University of Oklahoma, in comment to Fada.

"Radio is extending the range of knowledge to the remote places of the earth and has greatly increased the responsibility of the educational agencies of the country. If wisely directed, it should extend appreciation for the finer things of life and raise the level of intelligence throughout the nation. It should improve the quality of its citizenship and quicken the conscience of the masses of people concerning their civic obligation."

JAMES MILLEN:

General Manager, National Company, Inc.

"The person who got a thrill in the past from picking up a program broadcast from a station a thousand miles or so away, has now a real thrill in store for him when he finds that, with a modern short-wave set, reception from stations in Australia, Java, London, Holland and other distant points is obtainable most any time of the year. Such receivers need no longer be laboratory instruments, but attractive single-control table models costing even less than the most inexpensive broadcast receiver."

J. E. SMITH:

President, National Radio Institute.

"Radio is proving more vital to the airman than to the navigator on water. Every airship engaged in commercial transportation must soon be equipped with suitable radio apparatus in order to guide the aerial navigator from one air port to the next. While much of the equipment is certain to be of such nature as to require no radio operator, such as the automatic direction finder and the radio telephone, there will nevertheless be need for the radio technician in the aviation industry. Indeed, commercial aviation can develop only as rapidly as suitable radio apparatus can be developed, applied and operated."

COLLECTOR BOOKS

Antique Radio Restoration & Price Guide by David & Betty Johnson, 1000 Sets	\$12.95
Guide to Old Radios, 225 pages., by David & Betty Johnson, over 350 photos	16.95
Radio Enters The Home, 128 pages., 8.5 X 11	14.95
Radio Equipment & Supplies - 168 page reprint, circa 1922, 8.5 X 11	17.95
1927 Radio Encyclopedia - Gernsback, 179 pages	11.95
*Old Time Radios! Restoration & Repair - 256 pgs. 247 illus. by Joseph Carr	16.95
Evolution of the Radio, 800 Radios - 227 pages 118 color pictures - <i>NEW</i>	22.95
Radio Art, Hard Cover - Full Color - <i>NEW</i>	29.95
*Classic Plastic Radios of the 30's and 40's by Sidel Catalin Style 200 Color Pictures	19.95
Classic TV's <i>NEW</i> 8.5 X 11 Color	16.95
Crystal Clear - <i>NEW</i>	39.95
The Portable Radio in American Life - Hard Cover - <i>NEW</i>	45.00
Meissner "How to Build" Instruction Manual 8.5 X 11, 168 pages	9.95
Short Wave Radio Manual, Official 1934, 260 pages	14.95
Vintage Radio Handbook, 263 pages, 1000 illustrations	11.95
Flick Of The Switch 1930-1950, 312 pages, 1000 illustrations	11.95
Most Often Needed Diagrams 1926-1938, 600 models	11.95
1921-1932 Collectors Guide, 264 pages, 9,000 models	11.95
Atwater Kent - 2 Volume Parts & Service Book Reprint, 24 pages. 8.5 X 11	7.95
ARVIN - The First Sixty Years, 263 pages	7.95
Radio For The Millions, a fun book, 192 pages PB	8.95
High Power Wireless Equipment, circa 1910-1911, 99 pages	9.95
Empire of the Air by Tom Lewis - <i>NEW</i>	25.00
Radios of the Baby Boom Era - See Page 32, Vol. 19, #3 for complete details. Each	16.95
Volumes 1 - 6, Radios of the Baby Boom Era. Admiral to Zenith, Complete Set	89.00
How To Build and Operate Short Wave Receivers, 72 pages	7.95
Official Radio Service Manual, 1930 Gernsback, 8.5 X 11, 356 pages	19.95
The Story of Nipper and His Masters Voice, 64 pages, illustrated	9.95
The Cat's Whisker, 50 Years of Wireless Design, HB (rediscovered copies)	14.95
Gernsback's Shortwave Library, 10 books, Vols. 1 - 10, each (specify volume)	2.25
Tesla's Experiments With Alternating Current, 170 pages	9.95
Collector's Guide to Antique Radios by Marty & Sue Bunis, 5,000 models, 400 color pictures 2nd Ed.	16.95
Fifty Years of Radio, March 1938 Issue of Hugo Gernsback's famous publication.	15.95
*Radio Manufacturers of the 1920's, Vol. 1, Very Large, by Alan Douglas	22.95
*Radio Manufacturers of the 1920's, Vol. 2, by Alan Douglas	26.95
*Radio Manufacturers of the 1920's, Vol. 3, - <i>NEW</i>	29.95
*RADIOS - Redux Listening in Style, Color, 120 pgs. by Philip Collins - <i>NEW</i>	17.95
*Radios - The Golden Age, 120 pages. Full Color by Phil Collins	14.95
Man of High Fidelity, Edwin H. Armstrong, PB, 272 pages	3.50
Vision by Radio by C. Francis Jenkins, 140 pages	9.95
Thomas A. Edison - A Stroke of Luck, PB, 562 pages	13.95
Nikola Tesla, Inventions, Research, Writings, 496 pages PB	16.95
Tesla Coil Secrets, PB	6.95
*The Complete Talking Machine, 8.5 X 11, 183 pages. Restoration of antique phonos	19.95
Vacuum Tubes in Wireless Communication, 5.5 X 8.5. 208 pages	12.95
222 Radio Circuit Designs, 5.5 X 8.5, 271 pages	11.95
Radio Set Socket Guide, 256 Pages - <i>NEW</i>	9.95
Legacies of Edwin Howard Armstrong, 8.5 X 11, 321 pages	15.95

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This circa 1920s radio repair and parts store is one of several displays.

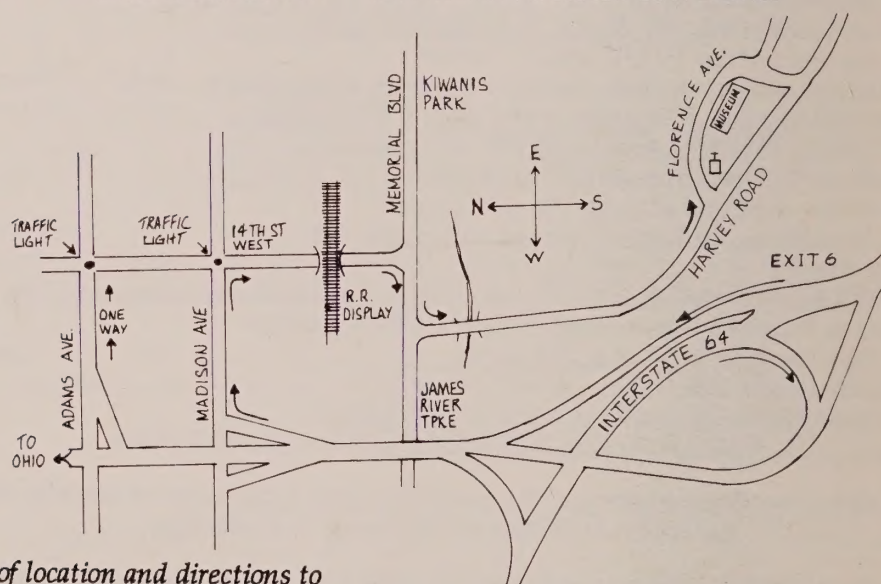
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Map of location and directions to
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